TRANSCRIPT OF RECORD

Supreme Court of the United States

OCTOBER TERM, 1938

No. 582

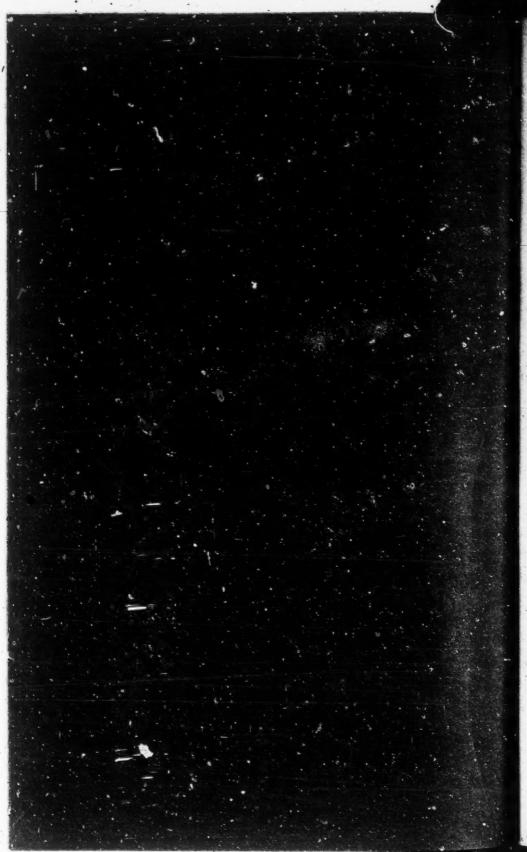
ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORATION, SAMUEL JOSELSON AND BELLE JOSELSON, PETITIONERS,

US.

THE THOMAS & BETTS CO. AND NATIONAL ELEC-TRICAL PRODUCTS CORPORATION

ON WRIT OF CERTIORARI TO THE UNITED STATES CIRCUIT COURT OF APPEALS FOR THE SECOND CIRCUIT

PETITION FOR CERTIORARI FILED JANUARY 11, 1939.



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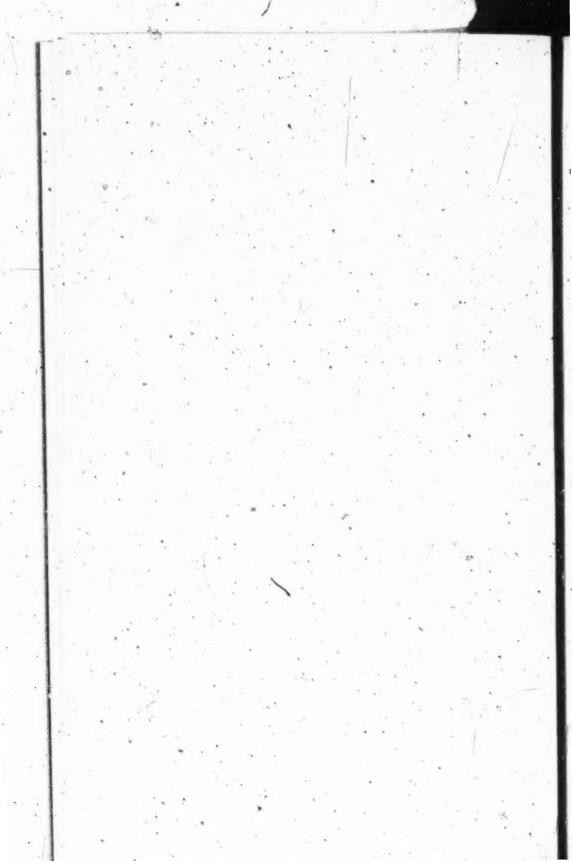
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FOR THE SOUTHERN DISTRICT OF NEW YORK.

HE THOMAS & BETTS Co., a corporation, and NATIONAL ELECTRIC PRODUCTS CORPORATION, a corporation,

Plaintiffs,

VS

poration, Joselson Sales Corporation, a corporation, Joselson Sales Corporation, a corporation, Samuel Joselson and Belle Joselson, individually,

Defendants:

Equity No. 81-229.

U. S. Letters Patent to Fullman No. 1,769,947.

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Bill of Complaint.

The plaintiffs, for their Bill of Complaint, allege:

- 1. That the plaintiff, The Thomas & Betts Co., is now and at all times hereinafter mentioned was, a corporation duly organized and existing under, and by virtue of the laws of the State of New Jersey, having its principal fice and place of business in the City of Elizabeth, county of Union and State of New Jersey.
- 2. That the plaintiff, National Electric Products Cororation is now, and at all times hereinafter mentioned was, a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, having its principal office and place of business in the City of Pittsburgh, County of Allegheny and State of Pennsylmia.
- 3. That the defendants, Electrical Fittings Corporation, and Joselson Sales Corporation, are now and at all times received mentioned were, corporations duly organized and existing under and by virtue of the laws of the State.

of New York, each having a place of business at 27 Warren Street, in the Borough of Manhattan, City, County and State of New York, in the Southern District of New York, within which district the acts herein complained of have been committed; and that Samuel Joselson and Belle Joselson, his wife, defendants, have an office and place of business in the Borough of Manhattan, City, County and State of New York, in the Southern District of New York, within which district the acts herein complained of have been committed.

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4. That this suit is based upon United States Letters Patent 1,769,947 entitled Connecter for Electrical Conduits issued July 8, 1930, to National Metal Molding Company of Pittsburgh, Pennsylvania, a corporation of Pennsylvania, as assignee of James M. G. Fullman, which Letters Patent was subsequently assigned to National Electric Products Corporation, plaintiff, and under which The Thomas & Betts Co., plaintiff, is the exclusive licensee of said National Electric Products Corporation, as will hereinafter more fully appear, and is brought under the patent laws of the United States.

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5. That on or prior to the 26th day of July, 1928, James M. G. Fullman, then of Sewickley, Pennsylvania, was within the meaning of the Statutes of the United States then in force, the first, sole, true and original inventor of certain new and useful improvements in Connecter for Electrical Conduits, not known or used by others in this country and not patented or described in any printed publication in this or any foreign country before his invention or discovery thereof, or more than two years prior to his application for Letters Patent therefor, and no application for any foreign patents having been filled more than twelve months prior to the filing of the application for Letters Patent in this country, and which improvements

had not been in public use or on sale in the United States for more than two years prior to his said application for Letters Patent therefor, and not abandoned to the public.

6. That on the 26th day of July, 1928, the said James M. G. Fullman made and filed an application in writing to the Commissioner of Patents of the United States for the grant of Letters Patent upon the said invention for said improvements in Connecter for Electrical Conduits; that on the 8th day of July, 1930, all of the requirements of the Statutes of the United States then in force having been duly complied with, Letters Patent of the United States numbered 1.769,947 for Connecter for Electrical Conduits was duly granted on said application to National Metal Molding Company, assignee, of Pittsburgh, Pennsylvania, the said James M. G. Fullman having by an instrument in writing assigned to said National Metal Molding Company, assignee, his entire right, title and interest in the invention described in said application aforesaid, which assignment was on July 26, 1928, duly recorded in the Transfers of Patents of the United States Patent Office at Liber T 135, Page 151, and requested the Commissioner of Patents to issue the Letters Patent to National Metal Molding Company, as assignee; and the said Letters Patent were so issued after due examination as to the novelty, patentability and utility of the invention therein described and payment of the fees required by law; that said Letters Patent granted to the said National Metal Molding Company and to its successors or assigns for the full term of seventeen years from the date thereof the exclusive right of making, using and selling the invention and improvements set forth, described and claimed therein throughout the United States and territories thereof, which Letters Patent, or a duly certified copy thereof plaintiffs will produce as this Court may direct.

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7. That after the issue of said Letters Patent 1,769,947 dated July 8, 1930, and prior to the infringement herein complained of, the said National Metal Molding Company, aforesaid, duly assigned said Letters Patent 1,769,-947 to National Electric Products Corporation, plaintiff. which assignment was, on July 16, 1930, duly recorded in the Transfers of Patents of the United States Patent Office in Liber W 144, at Page 496; and that said National Electric Products Corporation was, at the time of the infringement herein complained of, and is at the present time, vested with the entire right, title and in-11 terest in and to said Letters Patent except for an exclusive license heretofore granted under said Letters Patent to The Thomas & Betts Co., its co-plaintiff herein, and certain sub-licenses heretofore granted by the said The Thomas & Betts Co., plaintiff, as will hereinafter more fully appear, to manufacture and sell devices embodying the improvements and inventions covered by said Letters Patent, which exclusive license was, on November 25, 1933, recorded in the Transfers of Patents of the United States Patent Office in Liber D 158, at Page 519; a certified copy of said assignment, and exclusive license 12 aforesaid, plaintiffs will produce as this Court may direct.

8. That since National Electric Products Corporation, plaintiff, and The Thomas & Betts Co., plaintiff, became the owner and exclusive licensee, respectively, of said Letters Patent and invention aforesaid, they have been in constant and exclusive exercise of all the rights and privileges therein granted and that these defendants have interfered with the business of these plaintiffs by the infringement of which complaint is herein made; that said invention has been of great benefit to plaintiffs and to the public; and that plaintiffs have expended large sums

of money developing the aforesaid invention with the aid of certain sub-licensee companies of the plaintiff, The Thomas & Betts Co., exclusive licensee, to wit:

The M. B. Austin Company—of Chicago, Illinois, a corporation of Illinois,

The Rattan Manufacturing Company,—New Haven, Conn., a corporation of Connecticut,

The National Engineering Corporation—of Terryville, Conn., a corporation of Connecticut,

National Electric Products Corporation—Pittsburgh, Pa., a corporation of Delaware,

Kwikon Company—Chicago, Illinois, a corporation of Illinois,

The Bridgeport Switch Co. of Bridgeport, Conn., a corporation of Connecticut,

Appleton Electric Company—of Chicago, Illinois, a corporation of Illinois,

American Circular Loom Company, Inc.,—New York City, a corporation of Delaware,

Steel City Electric Co.,—Pittsburgh, Pa., a corporation of Pennsylvania,

Conduit Fittings Corporation, Chicago, Ill., a corporation of Illinois,

All-Steel Equipment Company,—Aurora, Ill., a corporation of Illinois,

Roach-Appleton Manufacturing Company,—South Bend, Indiana, a corporation of Delaware,

which companies are now, and at all times herein mentioned have been willing and able to fully supply the market with devices described in and/or covered and defined by the claims of the patent in suit; that all of said licensees have recognized and acquiesced in the novelty, utility, value and patentability of the invention covered by said Letters Patent and have acquiesced in the validity

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of said Letters Patent; that the exclusive rights of the plaintiffs in respect to said invention and Letters Patent have been generally acquiesced in, acknowledged and respected by the public; and but for the unlawful acts of these defendants, and others acting in collusion with them, plaintiffs would now be in the exclusive enjoyment of the rights and privileges granted by said Letters Patent.

- of the incorporation of Electrical Fittings Corporation, said corporation bought as a going concern the business previously conducted by Joselson Sales Corporation, and acquired the assets and assumed the liabilities of said Joselson Sales Corporation; that both said corporate defendants are now and at times herein complained of have been managed, financed, controlled, and dominated, by Samuel Joselson, and his wife Belle Joselson, jointly and severally; and that said individual defendants are now the only officers and directors of said corporate defendants.
- 10. That, on information and belief, Electrical Fittings Corporation, Joselson Sales Corporation, defendants, and Samuel Joselson and Belle Joselson, defendants, individually and as officers and directors of said corporate defendants, well knowing the premises and rights secured to these plaintiffs by said Letters Patent, with the intent to injure plaintiffs and interfere with their business and deprive them of the profits derived and to be derived from making, using and selling the said invention, did, within the Southern District of New York, and elsewhere in the United States, subsequent to the grant of said Letters Patent and within six years next preceding the filing of this Bill of Complaint, without the license and consent of said plaintiffs, or either of them, jointly and

severally contribute to the infringement of said Letters Patent aforesaid, and the exclusive rights of these plaintiffs, by manufacturing, using and/or selling cable connecters adapted and intended to be used as illustrated. described and claimed in said Letters Patent aforesaid; that the cable connecters manufactured, used and/or sold by these defendants, in infringement of said Letters Patent, are illustrated by the photostats attached hereto:

QUANTITY 50



SIZE 3/

SET SCREW CONNECTORS -

ES CORPORATION

QUANTITY

SIZE

50 3/8



SQUEEZE CONNECTORS

JOSELSON SALES CORPORATION W YORK CITY

that said defendants are preparing, conspiring, and threatening to continue the infringement of said Letters Patent by continuing the manufacture, use and/or sale of cable connecters, as aforesaid, and thus inflict further injury, damage and loss upon these plaintiffs, but to what extent the defendants have profited or will profit by reason of the aforesaid infringement and/or contributory infringement plaintiffs are and will be ignorant without an accounting.

23 11. That, on information and belief, the plaintiff, The Thomas & Betts Co., and its licensees aforesaid have given due notice to the defendants and to the public generally that the cable connecters made, used and sold by them are covered by the patent in suit, and in addition thereto these defendants have in other ways been fully advised and notified of said plaintiff's exclusive license under said Letters Patent.

Plaintiffs therefore pray:

(a) For a permanent injunction and a preliminary injunction pending this suit, restraining said defendants, their attorneys, agents, representatives, workmen, clerks, employees and privies, and all others acting by and under their direction of authority, or those in active concert or participating with them from directly or indirectly making or causing to be made, using or causing to be used, selling or causing to be sold, supplying or causing to be supplied, advertising or causing to be advertised, or offering for sale; and from directly or indirectly encouraging or aiding and abetting the manufacture, use, sale, or in any way or manner disposing of connecters for electrical conduits, or any other apparatus or product embodying or employing the inventions

described in, or covered and defined by United States Letters Patent Fullman 1,769,947 issued July 8, 1930; or from infringing upon, contributing to the infringement of, or violating the inventions of said Letters Patent in any way whatsoever.

- (b) For costs of this suit and for an accounting of profits accrued to defendants, and damages sustained by plaintiffs resulting from said infringement, and that any damages so assessed, may be trebled.
- (c) For such other and further relief as the circumstances of the case may require.
- (d) That a subpoena ad respondendum be issued under the seal of this Court directed to the defendants herein, requiring them to answer this Bill of Complaint, within the time specified by the equity rules, but not under oath, oath to the answer being hereby expressly waived.

THE THOMAS & BETTS Co.,
By (sgd) Wm. Bohleber,
Attorney. 27

NATIONAL ELECTRIC PRODUCTS CORPORATION,
By (sgd) Wm. Bohleber,
Attorney.

- (sgd) Bohleber & Ledbetter, Solicitors for Plaintiffs.
- (sgd) WM. BOHLEBER,
- (sgd) Francis H. Fassett.
- (sgd) JOHN M. MONTSTREAM, of Counsel.

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State of New York, Ss.:

WILLIAM BOHLEBER, being first duly sworn on oath, deposes and says:

That he is the attorney for The Thomas & Betts Co., one of the plaintiffs herein, and that he makes this verification for and in its behalf, with authority, and for the reason that said plaintiff is a foreign corporation, and has no officer or agent within the State of New York authorized to execute the bill of complaint herein; that he is the attorney for National Electric Products Corporation, plaintiff herein, and that he also makes this verification for and in its behalf, with authority, and for the reason that said plaintiff is a foreign corporation, and has no officer or agent within the State of New York authorized to execute the bill of complaint herein; that he has read the foregoing complaint, knows the contents thereof, and of his own knowledge knows the same to be true except as to matters therein stated on information and belief, and as to these matters he believes them to be true.

(sgd) WM. BOHLEBER.

Subscribed and sworn to before me this 5th day of October, 1935.

(sgd) · Frances McNally, Notary Public.

(Seal)

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Answer.

[SAME TITLE]

Defendants, for answer to the bill of complaint herein, or to as much thereof as they are advised is material or necessary to be answered, say:

- 1. Answering paragraph 3 of the bill of complaint, defendants Samuel Joselson and Belle Joselson deny each and every allegation therein contained.
- 2. Defendants deny each and every allegation contained in paragraphs 5 and 6 of the bill of complaint, save defendants admit having seen what purported to be a copy of Fullman patent No. 1,769,947, granted July 8, 1930, on an application purported to have been filed July 26, 1928.
- 3. Defendants are uninformed, save by the bill of complaint, as to the matters set forth in paragraph 7 of the bill of complaint and therefore require strict proof with respect thereto.
- 4. Defendants deny each and every allegation contained in paragraph 8 of the bill of complaint.
- 5. Answering paragraphs 9, 10 and 11 of the bill of complaint; defendants deny each and every allegation therein contained, save that defendants admit the acquisition by Electrical Fittings C reporation of Joselson Sales Corporation.

- .6. Further answering the bill of complaint, defendants specifically deny infringement of the said patent.
- 7. Further answering the bill of complaint defendants on information and belief allege that Fullman patent No. 1,769,947 is wholly void and invalid at law and of no legal effect for each of the following reasons:
- (a) Because the alleged invention of said patent was shown and described in printed publications in the United States and countries foreign to the United States before the alleged invention by the patentee and/or more than two years prior to the filing of the application on which said patent issued, as follows:

UNITED STATES PATENTS.

Hulburt	276,415	Apr. 24, 1883
Greenfield	640,758	Jan. 9, 1900
Goehst & Wilkes	681,416	Aug. 27, 1901
Klein	799,989	Sept. 19, 1905.
Freeman	848,819	Apr. 2, 1907
Hinsdill	849,395	Apr. 9, 1907
Gilbert	949,628	Feb. 15, 1910
Davis	1,130,483	Mar. 2, 1915
Appleton	1,192,150 ·	July 25, 1916
Roux	1,235,926	Aug. 7, 1917
Webster	1,245,077	Oct. 30, 1917
Janofsky	1,246,102	Nov. 13, 1917
Casper	1,279,256	Sept. 17, 1918
Benjamin	1,345,473	July 6, 1920
Thomas	1,418,989	June 6, 1922
Thomas	1,475,524	Nov. 27, 1923
Perry	1,585,688	May 25, 1926
Selah	1,597,486	Aug. 24, 1926

and others of whom defendants are not at present advised but beg leave to add hereto by proper amendment when information thereof is obtained.

- (b) Because said patent discloses no patentable invention and/or in view of the state of the art at and prior to the time the alleged invention is purported to have been made and as illustrated in the instances thereof referred to in paragraph (a) hereof.
- (c) Because the patentee surreptiously or unjustly obtained the patent for that which was in fact the invention of another who was using reasonable diligence in adopting and perfecting the same, to wit:
 - Otto A. Frederickson, of and at Wethersfield, Conn., as disclosed in United States patent No. 1,687,013, granted October 9, 1928, on an application filed December 7, 1927.
 - Lewis H. Church, of and at Elizabeth, N. J., as disclosed in United States patent No. 1,787,668, granted January 6, 1931, on an application filed December 27, 1926.

Daniel L. Hunter, of and at Houston, Texas, as disclosed in United States patent No. 1,800,348, granted April 14, 1931, on an application filed March 19, 1928.

Lewis H. Church, of and at Elizabeth, N. J., as disclosed in United States patent No. 1,816,667, granted July 28, 1931, on an application filed November 12, 1926.

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and others of whom defendants are not at present advised but beg leave to add hereto by proper amendment when information thereof is obtained.

- (d) Because the alleged invention of the said patent was publicly known to others before the alleged invention thereof by the patentee, or more than two years prior to his application for Letters Patent therefor. Defendants are not at present advised as to the instances of public knowledge but beg leave to add the same hereto by proper amendment when information thereof is obtained.
- (e) Because the alleged invention was in commercial use and/or on sale before the alleged invention thereof by the said patentee, or more than two years prior to his application therefor. Defendants are not advised of the particulars of the instances thereof but beg leave to add the same hereto by proper amendment when information thereof is obtained.
- 8. Answering the said bill of complaint, and as a further, separate and complete defense thereto, defendants allege that they are not engaged in the manufacture of electrical fittings but are solely engaged in the resale of electrical fittings acquired from manufacturers thereof; that the connectors sold by them, the sale of which is charged to constitute an infringement of the said Fullman patent in suit, were all acquired from licensees of plaintiffs, jointly or severally, under the said patent in suit, to wit:

Appleton Electric Company of Chicago, Illinois. Steel City Electric Company of Pittsburg, Pa. Conduit Fittings Corporation of Chicago, Ill. Sterling Manufacturing Company of Connecticut. Wherefore defendants deny that plaintiffs, or either of them, are entitled to the relief prayed for, or to any relief, and therefore pray to be hence dismissed with their costs in this cause sustained.

And defendants further pray for such other and further relief as to the Court may seem just and the circumstances may require.

ELECTRICAL FITTINGS CORPORATION, a corporation, Joselson Sales Corporation, a corporation, and Samuel Joselson and Bulle Joselson, individuals, Defendants,

By Darby & Darby,
Their Attorneys,
Office & Post Office Address,
#405 Lexington Avenue,
New York City, N. Y.

Samuel E. Darby, Jr., of Counsel.

Dated: November 8, 1935.

Waiver of Treble Damages by Plaintiffs.

[SAME TITLE]

Now comes the plaintiffs in the above-entitled case, the Court consenting, and hereby waive their right to treble damages as prayed for in paragraph (b) of the prayer in the bill of complaint herein; whereupon plaintiffs hereby direct, the Court consenting, that said paragraph be amended as follows, to-wit:

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Line 3, change the comma (,) after the word "infringement" to a period (.) and strike the following words, to wit: "and that any damages so assessed may be trebled."

Bohleber & Ledbetter, Attoneys for Plaintiff.

Dated January 7th, 1936.

It is so ordered.

FRANCIS G. CAFFEY, U. S. D. J.

ACKNOWLEDGMENT.

Service of a copy of the above waiver acknowledged this 7th day of January, 1936.

DARBY & DARBY, Attorneys for Defendants.

[SAME TITLE]

(A set screw connector identified in interrogatories dated December 23, 1935, propounded by the plaintiffs to the defendants, we offered and received in evidence as Plaintiffs' Exhibit 1.)

(A squeeze connector type identified in interrogatories dated December 23, 1935, propounded to defendants by plaintiffs, was offered and received in evidence as Plaintiffs' Exhibit No. 2.)

(Interrogatories propounded by plaintiffs to defendants, and dated December 23, 1935, was offered and received in evidence as Plaintiffs' Exhibit No. 3.)

(Defendants' answers to interrogatories verified February 1st, 1936, filed pursuant to an order dated January 23, 1936, by his Honor, Judge Caffey, were offered and received in evidence as Plaintiffs' Exhibit No. 4.)

(Defendants' further answer to interrogatories verified February 8, 1936, correcting certain of the answers given in Plaintiffs' Exhibit No. 4, were offered and received in evidence as Plaintiffs' Exhibit No. 5.)

(Plaintiffs' motion, dated March 23, 1936, for an order on defendants to furnish further and better particulars of the matters stated in paragraph 8th of their answer, was offered and received in evidence as Plaintiffs' Exhibit 6.)

(Defendants' bill of particulars dated April 21, 1936, was offered and received in evidence as Plaintiffs' Exhibit No. 7.)

(A certified copy of United States Letters Patent to Fullman, 1,769,947, in suit, assigned to the National Metal Molding Company, and granted July 8, 1930, was offered and received in evidence as Plaintiffs' Exhibit No. 8.)

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(A certified copy of an assignment dated July 14, 1930, by which the National Metal Molding Company assigned the patent in suit to National Electric Products Corporation, one of the plaintiffs herein, said assignment being recorded July 16, 1930, in Liber W-144, Page 496 of the Transfer of Patents of the United States Patent Office, was offered and received in evidence as Plaintiffs' Exhibit 9.)

(A certified copy of an exclusive license agreement, dated November 16, 1933, between National Electric Products Corporation, plaintiff and the Thomas & Betts Co., Inc., co-plaintiff herein, said agreement being recorded November 25, 1933, in Liber D-158, Page 159 of the Transfer of Patents of the United States Patent Office, was offered and received in evidence as Plaintiffs' Exhibit 10.)

(A certified copy of the certificate of incorporation of Joselson Sales Corporation, the defendant, a corporation of New York, filed with the Secretary of State of New York on February 8, 1933, was offered and received in evidence as Plaintiffs' Exhibit No. 11.)

(A certified copy of the certificate of incorporation of Electrical Fittings Corporation, defendant, a corporation of New York, filed with the Secretary of State of New York on June 3, 1935, was offered and received in evidence as Plaintiffs' Exhibit 12.)

Adnah McMurtrie (837 Ramapo Way, Westfield, New Jersey), called as a witness on behalf of the plaintiffs, being duly sworn, testified as follows:

My name is Adnah McMurtrie; I live at 837 Ramapo Way, Westfield, New Jersey; my age is 65; I am secretary of the Thomas & Betts Co., a New Jersey corporation, one of the plaintiffs in this suit. I have been connected with the Thomas & Betts Company since its organization in 1917, but with its predecessors from about July, 1898. Briefly the business of the Thomas & Betts Company is the manufacture and sale of small electrical specialties and fittings for the installation of electrical work in buildings. Since my connection with the plaintiff company and its predecessors in interest I have the ordinary duties of a secretary of a corporation. In addition I am in charge of the different contracts, of patents and legal matters of the corporation, although I am not an attorney.

The Thomas & Betts Compa has granted to others licenses to manufacture and sell cable connections like those covered by the patent in suit. I have brought a 57 memorandum with me giving the names and addresses of all the present licensees of the patent in suit.

The Court: You may use it to refresh your recollection.

The Witness: It is quite a list. The M.-B. Austin Company of Chicago, Illinois; the Rattan Manufacturing Company of New Haven, Connecticut; Andrew Terry Company, formerly the National Engineering Corporation, of Terryville, Connecticut. I have some pencil memoranda on this, and I will try to make it clear to you. The Quick-

On Company of Chicago, Illinois; Bridgeport Switch Company of Bridgeport, Connecticut; Appleton Electric Company of Chicago, Illinois; Steel City Electric Company of Pittsburgh, Pennsylvania; Conduit Fittings Corporation of Chicago, Illinois, who succeeded the Chicago Steel Tank Company of Chicago, Illinois.

The Chicago Steel Tank Company had a license under the patent in suit at one time, and that is also true with respect to the National Engineering Corporation, the Reco-All Steel Co., who succeeded the All Steel Equipment Company of Aurora, Illinois, and the Appleton Manufacturing Company of South Bend, Indiana. Both of them had licenses at one time.

By the Court:

Q. How many does that make altogether?

The Witness: Nine in existence today. I have got to clarify this memorandum for your clerk, I think.

Although there are twelve stated on page 5 of the bill of compaint, the American Circular Loom Company had gone out of business, the corporation dissolved. That is one of those.

The Reco-All Steel Company took the place of two licenses. That makes one extra. The Sterling Manufacturing Company was cancelled on May 10, 1933. The Midwest Electric Company of Chicago was cancelled on May 10, 1933.

The National Electric Products Company had a license at one time.

We now have the Austin Company, the Rattan Manufacturing Company and the National Engineering Corporation, now the Andrew Terry Company of Terryville. The National Electric Products Corporation license has been cancelled. There are also the Quick-On Company of Bridgeport, and the Appleton Electric Company. The

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American Circular Loom Company has been dissolved. There are also the Steel City Electric Company and the Conduit Fittings Corporation, successor to the Chicago Steel Tank; and the Reco-All Steel.

The All Steel Equipment Company license has been taken over by a combination of the Reco-All Steel Company that took over the license, also the Roach-Appleton. You see that is a combination of Roach and Appleton. The Roach-Appleton is combined into the Reco at the present time. That is all of them.

The license to Sterling Manufacturing Company was 62 cancelled May 10, 1933. I am familiar with the device de-

scribed in and covered by the patent in suit

Q. I hand you a copy of the patent in suit and ask you as a practical man in the art to state to the Court briefly the invention illustrated, described and claimed rein.

Mr. Crews: If your Honor please, I think the witness should state his qualifications to testify as an expert.

The Court: Sustained.

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Q. Mr. McMurtrie, please state your qualifications for testifying as a practical man in the art. A. I am a graduate electrical engineer and—

The Court: Of what institution?

The Witness: Lafayette, some years ago. I also graduated from a bench in a machine shop. I have been an inspector of electrical installations for the City of New York.

Q. For how long? A. Well, I was there from 1895 or 896 to the latter part of 1898, around the middle of 1898.

I have had issued to me for electrical devices probably 25 patents, small electrical devices. I have been engaged in the manufacture of such devices, designing of them and manufacturing them from 1901 or 1902 to date.

The Court: What did you have to do with the manufacture of the devices which have been made by the plaintiff company under this patent?

The Witness: I installed the plant, or the plant was installed under my superintendence, our own manufacturing plant, and it was equipped under my supervision.

The Thomas & Betts Company normally employ a maximum of about 500 people. Today we are employing around, I should say, 350.

Q. Now, I will repeat the question, and I hand you a copy of the patent in suit and ask you as a practical man in the art to explain to the Court briefly the invention illustrated and described and claimed therein. A. May I use the samples I brought with me?

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The Court: Yes. You may use those if they are the same as those in evidence.

The Witness: These are the same as those, your Honor.

The Court: Is there any question about them, Mr. Crews?

Mr. Crews: They are substantially the same. I am not sure that they are made by the same company, but they are the same type.

The Witness: They are made by our own company.

The Court: He says they are made by his own company.

Mr. Crews: Yes. They are the same type of thing, I mean.

The Court: Yes. All right. There has not been a box such as the one he is working on now marked in evidence.

Mr. Bohleber: I will identify it, your Honor, as he goes along with his testimony.

The Court: Very well. I think perhaps the record should show that the witness produces—

Mr. Bohleber: An outlet box.

The Court: An outlet box, which will be marked Exhibit 13 for identification.

(Marked Plaintiffs' Exhibit No. 13 for identification.)

The Witness: And two lengths of cable.

The Court: And two lengths of cable, which will be marked as Exhibits 14-A and 14-B for identification.

(Marked Plaintiffs' Exhibits Nos. 14-A and 14-B for identification.)

The Witness: And two connectors.

The Court: And two connectors, which the witness states are duplicates of exhibits—

Mr. Bohleber: 1 and 2.

The Court: 1 and 2 respectively.

The Witness: And fibre bushings.

The Court: Three fibre bushings, which will be marked Exhibit 15.

(Marked Plaintiffs' Exhibit No. 15 for identification.)

Mr. Crews: Connectors and bushings will all be marked 15?

The Court: The bushings 15. The witness has removed from the—

Mr. Bohleber: Outlet box.

The Court (Continuing): —the outlet box two—The Witness: Two knockouts.

The Court: Two knockouts, the size and shape of a coin.

The Witness: Now, this invention covers the application of the combination of a connector, Fig. 10 in patent in question, placed between an armored cable Fig. 3-that is numeral 3 and numeral 10this armored cable consisting of a flexibly wound steel tape, beneath which is placed an electrical conductor over which conductor is wound a paper . tape, the paper tape being between the steel tape and the insulated conductors, the insulated conductors being numeral 4, the paper tare numeral 5. It is for the purpose of connecting this cable with an outlet box,-one wall is shown in numeral 1,-and retaining in place a fibre bushing, numeral 8, and at the same time permitting it to be inspected or readily seen by an inspector or any other party. The connection is held in the box by the lock-nut numeral 15. The paper 5 is unwound.

The Court: The witness proceeds to physically unwind it from Exhibits 14-A and 14-B.

Mr. Fassett: Sections of BX cable.

The Witness: When it is unwound the witness shows that where the steel armor has been cut there is a decided burr on the steel. The fibre bushing is then inserted in the space between the armor and the paper.

The Court: All right. I just want to take a look at it before you go to the next point. (Examining.) Yes.

The Witness: Protecting the soft insulation of the wire from the burr of the steel. Then inserted under the connector—

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The Court: Now, let's see; you are using a connector of what type?

The Witness: Set-screw we call it.

The Court: Set-screw?

Mr. Bohleber: Is that right, Mr. McMurtrie?

The Witness: Yes, it is the set-screw type. That is correct.

Mr. Bohleber: Which is now clamping the connector to the armored plate, places it in one of the openings of the outlet box and applies a-

The Court: Set-serew, is that it?

The Witness: Lock-nut.

Mr. Bohleber: A lock-nut.

The Court: Now I want to see where the red bushing is in that assembly.

The Witness: The red bushing is on the inside of the box, your Honor.

The Court: Yes, I see it. It would be more visible by releasing the lock-nut, wouldn't it?

The Witness: Yes, but very often-

Mr. Bohleber: Would it or would it not?

The Court: He says yes.

The Witness: Yes. Now I am taking another 75 cable-

The Court: That will be 14-B.

The Witness: You will see also that there is a burr on that where the saw has cut.

The Court: Yes.

Mr. Bohleber: A burr on the armored cable.

The Court: On the armored cable?

The Witness: Yes, on the armored cable.

The Court: Now he inserts a red bushing and then places it in the connecting 14-B.

Mr. Fassett: In the outlet box, you mean.

The Court: No, in the connector, Exhibit 2, similar to Exhibit 2, then places it in another out-

let in the connecting box, Exhibit 13, and attaches the lock-nut, thus having made use of the two types of connector, and submits the article for the inspection of counsel and the Court.

(The assembled device was thereupon offered and received in evidence as Plaintiffs' Exhibit 16.)

Plaintiffs' Exhibits Nos. 1 and 2 are intended to be used to connect to the outlet box, armored cable consisting of insulated copper wires, paper-sheathed, and the steel armor thereof. Another use to which they could be put other than the combination defined by the claims of the patent in suit is that they might be used to connect armored cable without the paper sheath, but it would not be good insulation as when the wires are bent over the sharp points there would not be any bushing to protect them and the insulation would be injured.

The Court: What is that bushing made of?

The Witness: The fibre?

The Court: Yes.

The Witness: It is fibre.

I am generally familiar with the commercial practice of various devices employed in connection with the connecting of cables and wires to outlet boxes which was in use prior to the granting on July 8, 1930, of the Fullman patent in suit. They used connectors with mouths similar to the one which I hold in my hand.

The Court: Which will be marked Exhibit 17 for identification.

(Marked Plaintiff's Exhibit No. 17 for identification.)

Q. How long had that been in use, Mr. McMurtrie! I am referring to—

The Court: Exhibit 17.

Q. (Continuing.) —Exhibit 17. A. You mean the mouths—connectors with the mouths—

Q. The connector itself. A. The connector itself, about

twenty years, maybe thirty.

Q. Will you explain briefly what might be referred to as the problem solved by the invention of the device covered by the patent in suit! A. During the construction of a building where the electrical installation is to be concealed, the installation is put in place before the plastering is done. Prior to the bringing out of this connection the plasterer was compelled by a great many of the inspection departments to leave part of the work unplastered so that when the inspector came along he could remove the cable from the connector to see whether or not the bushing was installed. It was necessary then for the inspector or for the contractor, and very often it was a case of neither doing it, securing the cable to the connector again and then the plaster was put on.

(The exhibit which was marked for identification as Exhibit No. 17 was thereupon offered and received in evidence as Plaintiffs' Exhibit 17.)

It is not necessary to remove the lock-nut in the device of the patent in suit in order to make the proper inspection of the device. When cable connectors like those covered by the patent in suit were first put upon the market they were received with great enthusiasm. They replaced practically the old connectors. I mean connectors with the old mouths.

The Court: You are referring to Exhibit 17? The Witness: Yes.

There were no objections to their use by Underwriters Laboratories, or by the fire departments of the various municipalities. They were specified by a great many. 80

Q. And what about the National Electric Code? When were they specified by that Code?

Mr. Crews: I object, your Honor. This witness has not testified that they were specified by the Code.

The Court: Sustained.

When this invention made its appearance upon the market the National Board of Underwriters specified its use. The book you show me is called the National Electric Code, covering the year 1933, regulations of the National Board of Fire Underwriters for electrical installations. There is a reference made in this Code to the type of connector involved in this suit. On page 52, Rule 503, Section G, it states:

"g. At all points where the armor terminates, an approved fitting shall be provided to protect wires from abrasion, unless the design of the outlet boxes or fittings required by paragraph e of this section is such as to afford equivalent protection, and in addition, an approved insulating bushing or its equivalent approved protection shall be provided between the conductors and the armor. The connector or clamp by which the armored cable is fastened to boxes or cabinets shall be of such design that the insulating bushing or its equivalent will be visible for inspection."

The date of this Code I am referring to is 1933; effective November 1, 1933. That same provision or substantially similar provision is incorporated in the codes subsequent to the year 1933, down to date. I have a memorandum covering the sales of cable connectors by the Thomas & Betts Company and its licensees under the

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patent in suit from the date of accurring the license of that patent to the last report made by the licensees about probably two or three months ago. I had the memorandum prepared; I did not prepare it myself. Going back to the question, how many cable connectors have been manufactured and sold by Thomas & Betts Company according to that report, Thomas & Betts Company and its licensees have sold sixty-four million. The owner of the patent sold about six million and a half, making a total of over seventy million.

The Court: Mr. Bohleber, just let me interrupt for a moment. I don't think that book of the National Electrical Code was marked. I think you better mark that Exhibit 18 for identification.

Mr. Bohleber: I think I will offer it in evidence, your Honor.

The Court: Well, you have already read from it the particular item, I assume, that we are interested in.

Mr. Bohleber: Yes.

The Court: And it won't be necessary to have the whole book in the record, but you better mark it for identification.

(The National Electrical Code of 1933 referred to by the witness was thereupon marked for identification as Plaintiffs' Exhibit 18.)

(The paper about which the witness has just been testifying as to sales was thereupon marked for identification as Plaintiffs' Exhibit 19.)

Now referring to Exhibit 19 for identification, I will explain the paper by referring to the various columns and types of connectors. There are two general types—set-screw and squeeze, we call them. The set-screw is the one with the screw, and the squeeze is the one with the

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pinch mentioned in the patent. The rest are slight modifications by different manufacturers of the clamping device using their own trade names. They all contain the patented mouth. Now—

The Court: You are referring to the people who operate under the license?

The Witness: Yes. They use their own trade names.

Just giving the totals and the years, the year starts in the spring, so from March, 1932, to February 28, 1933, the sales were four million; the next twelve months period they were 8,700,000—I am giving the even figures—the next twelve months period they were 6,000,000; the next twelve months period they were 8,500,000; the next twelve months period they were 10,800,000, and the last three-quarters, from March to November, there were 5,000,000 sold.

The Court: That is this year?

The Witness: Yes, that is this year. Then there were other sales not included in the above, from November, 1933, to December, 1934, by licensees where licenses have been cancelled. They amount to about 1,150,000. That makes a grand total of 63,967,000, in addition to which the owners of the patent for that same period, not including any sales for 1937, sold 6,400,000, making a total, as said before, of 70,377,000. There is a report for the owners' sales that are not included in that first sheet.

• (The tabulation to which the witness just referred was thereupon offered and received in evidence as Plaintiffs' Exhibit 19.)

The Court: The witness calls attention to the

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fact that he had in his possession a memorandum relating to sales made by the owner of the patent.

Mr. Bohleber: Yes.

The Court: Which was not a part of Exhibit 19.

Mr. Bolleber: That is right.

The Witness: But which I quoted from.

The Court: All right.

Approximately the gross selling price of all the connections manufactured and sold by the plaintiffs and other licensees under the patent in suit since the date of that exclusive license, namely, on January 22, 1932, is over \$1,500,000. I haven't got a memorandum of approximately how many connectors were sold prior to the date of our exclusive license coming within the scope of the patent in suit.

Cross Examination:

Q. Mr. McMurtrie, how many licensees did you say altogether the Thomas & Betts Company have? A. My recollection is nine. You have the list there.

Q. How many companies are there manufacturing electrical fittings who are not licensed under that patent?

A. I don't know.

Q. Are there any? A. I imagine so, although I don't know how many.

Q. There are no large ones? A. I don't know.

Q. You testified, I believe, that some 63,000,000 of these connectors have been sold under license, is that correct? A. By ourselves and our licensees.

Q. No, I believe you said that there were about 70,000,000, including your own. A. No, that was 70,000,000 including the National Electric Products Company. They own the patent.

Q. Oh, I see; you are including the Thomas & Betts

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as one of the licensees when you say 63,000,000? A. I said—

Q. 63,000,000 sold by licensees under the patent? A. I said by ourselves and our licensees.

Q. And how many of those were sold by Thomas & Betts? A. 19,600,000.

Q. Leaving about 44,000,000 that were sold by other licensees under the patent, is that correct? A. Yes, sir.

Q How many of those were you paid royalties on? A. So far as I know, on every one of them.

Q. Isn't it true that some of your licensees have not paid you any royalties for some time? A. It is not.

Q. Have you a copy of the patent in suit before you?

A. I have.

Q. Will you please refer to page 1, lines 53 to 64 of that patent? A. Yes, sir.

Q. Would you read that aloud, please? A. 63?

Q. 53 to 64. A. 53 to 64:

"When the edge of the armor 6 has been cut away, the jacket 5 is unwound for a suitable distance and broken off, thus leaving an annular space around the conductors within the armored cable back of the cut-away edge."

Is that what you mean?

Q. That is correct. A. (Continuing):

"Into this space there is slipped around the conductors the split tubular bushing 7 formed of insulating material and having at its outer edge the integral shoulder 8 which bears against the cutaway edge of the armor, leaving the exposed conductors 4 projecting therefrom."

Q. Now, in preparing that Exhibit 16, that is the assembly of box and connector, did you unwind the jacket 5 for a distance below the ragged edge of the cable, as

required by this portion of the patent? A. I did on one. The other one apparently was wound too tight, I could not get it off.

Q. You tried to unwind it and could not do it? A. I think so.

Q. Then it says, "Into this space the split tubular bushing 7 is pushed." A. Yes.

Q. "And having a shoulder 8 which bears against the cut-away edge of the armor." A. Correct.

Q. That is, the bushing is pushed all the way down in? A. Yes.

Q. Is that correct? A. Yes.

Q. Now, on page 1, lines 91 to 94 of the patent it is stated:

"In fact, as shown in Figures 1 and 5, the shoulder of the bushing projects slightly beyond the side edge of the lock-nut 15,"

and in Figs. 1 and 5 you will notice the reference numeral 8. That refers to the bushing, does it not? A. Yes.

Q. That bushing is placed very near to the edge there? 99 A. Yes, I see.

Q. And it gets underneath the shoulder 9 of the connector, is that right? A. Yes.

Q. That is what the patent requires, is that correct? A. That is what the specifications state.

Q. Underneath that shoulder 9 on the connector? A. That is what the specifications say.

Q. Yes. If it projected beyond that shoulder 9, there would be no point to these peep-holes around the top of the connector, would there? You could look directly at it and see the bushing? A. You could in some situations, yes.

· Q. Well, take Exhibit 17, I think that is the number.

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Yes, Exhibit 17. If that bushing projected out beyond the flange of the connector, you could see it, couldn't you? A. Yes.

Q. There would be no difficulty in seeing it? A. If it projected beyond there you could see it, beyond the

outside edge of the flange.

Q. Yes; and I notice in claim 1 that there is a shoulder bearing against the outer end of the armor. That is referring, I take it, to the type of assembly shown in Figs. 1 and 5, with the bushing pushed down inside the connector, is that right? A. Yes.

Q. And in claim 2 it refers also to a shoulder bearing against the end of the conduit. That is referring to that same type of construction or assembly? A. That refers to the bushing against the edge of the conduit.

Q. Now, from your Exhibit 16, in putting the first connector in place I noticed that after you had stripped the paper away down to the end of the cable where the cable was cut off, you then put in a bushing. A. Yes.

Q. Then over that you do have a connector, that is correct, isn't it? A. Over that I put the connector sleeve, yes.

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- Q. And then you fasten that to the box? A. Yes.
- Q. Now, in putting the second of these connectors on Exhibit 16, why did you not also use a bushing? A. I did.
- Q. Well, where is it? A. It is there. I can see it. That is right there (indicating). I can see it.
 - Q. Oh, so there is a bushing in each of these? A. Yes. Q. I did not see you put it in.

. The Court: I saw him put it in.

Mr. Crews: And since it is almost impossible to see it, I did not notice it was there.

The Court: You remember I called attention to what he put in when he put the first in.

Mr. Crews: Yes, your Honor.

The Court: The fact that you could see it better if you unscrewed the lock-nut, and then I watched to see what the situation was when he put in the second one.

- Q. Now, in this Exhibit 16 I notice that the bushings are so far down in that the wires, the insulation on the wires themselves, is rubbing against the corner of the connector. Do you notice that? A. Yes, I do.
- Q. And that creates some wear against the wires, doesn't it? A. It might.
- Q. If that bushing were put in so that its shoulder projected beyond the connector, that would protect those wires against that edge, would it not? A. Provided the bushing stayed in place.
- Q. Provided that what? A. Provided that the bushing stayed in place.
- Q. Your answer is it would, provided that if the bushing stayed in place? A. Yes, sir.
- Q. And what would keep the bushing from staying in place? A. Nothing could keep it from staying in place. Vibration would loosen it up.
- Q. What vibration? A. All vibration, any vibration in a building or in an installation. There is always vibration.
- Q. The vibration such as we have in the courtroom right now? Is that what you are referring to? A. I am referring to vibration in an ordinary building.
 - Q. Well, such as the courthouse here? A. Yes.
- Q. That would dislodge the bushing? A. It probably would.
- Q. Did you ever hear of a case where a bushing was dislodged? A. No, I have not. I never knew of a bushing being put in that way.
 - Q. Well, how did they put them in prior to the patent

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in suit? A. They didn't put them in. They put them in with connectors the same as these are put in, so you could not see whether they were put in.

Q. They did not leave the shoulder projecting beyond—A. No.

- Q. How many have you seen put in, Mr. McMurtrie! A. I?
- Q. Yes. A. I can't tell you exactly, but I have seen thousands of them.
 - Q. How recently? A. Within a few months.
- Q. How does the price of the connectors with the peepholes, such as that Exhibits 1 and 2, compare with the price of the connectors not having peep-holes? A. I don't know. We don't sell any without the peep-holes.
 - Q. Do any of your licensees sell any without peepholes? A. I don't know. I don't receive any such reports today.
 - Q. When the connectors with the peep-holes were first put out by you and the other licensees they were sold at lower prices than the connectors shown on Exhibit 17 then on the market, were they not? A. What is that!
 - Q. (Read.) A. I am not sure. The prices varied from time to time.

Q. You read a section from the National Electrical-Code. A. Yes, sir.

Q. I didn't hear anything in the section you read that had any reference to this type of connector. Can you point out to us what particularly you had in mind in that section? A. (Reading):

"The connector or clamp by which the armored cable is fastened to boxes or cabinets shall be of such design that the insulating bushing or its equivalent will be visible for inspection."

It does not say you have got to have peep-holes, it says it has got to be visible for inspection.

Q. It simply says it has got to be visible? A. Yes.

Q. So that if you put the bushing in with the shoulder outside the connector, it would satisfy that requirement of the Code, wouldn't it? A. I presume so, yes, providing it was so installed that it remained in place.

Q. If it would remain in place, yes; if it did not shake out due to the vibration of the building? A. Yes.

Q. And with the connector of Exhibit 17 that would also be true, would it not, Mr. McMurtrie? Exhibit 17 is the earlier type.

The Court: This one here, the one with the old mouth?

The Witness: Yes.

Q. How long has the Fire Underwriters Code required that bushings be visible? A. I think it took effect November 1st, 1933, according to the code there.

Q. They did not require it before then? A. The code states it becomes effective November 1st, 1933, I think. Didn't I read that?

'Q. Well, there was a code before that one, wasn't there? A. They did not require it.

Q. Now, Mr. McMurtrie, I want you to point out for us, if you will, the exact differences in construction between the connector of Exhibit 17 and Exhibit 1. A. The entire difference is in the mouth being so formed that when a bushing is placed at the end of an armored cable, inserted therein, in Exhibit 1, that bushing can be seen, in Exhibit 17 it cannot be seen.

Q. Well, of course, we just got through discussing the question of whether the bushing can be seen. I am interested now in the question of the differences between those two pieces of apparatus. Now, as I see it, the real difference is that the little portion of the lip of Exhibit 17 has been cut away, and there we have Exhibit 1, is that correct? A. That is correct.

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Q. We have an inwardly protruding flange on Exhibit 17, do we not? A. Yes.

Q. Just as we have on Exhibit 1? A. Yes.

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Q. That simply involves cutting these little niches in the connector? A. Yes.

Q. In order to make Exhibit 1 from Exhibit 17. Of course, the same thing is true about Exhibit 2, except that it is a squeeze type? A. A different method of fastening the cable.

Q. How many different types of bushing are on the market, Mr. McMurtrie? A. I am not familiar with it.

The Court: Do you know of more than one? The Witness: I do not, today.

Q. You do not? A. No.

Q. And how many of those bushings are made by licensees of Thomas & Betts, or National Electric Products? A. You mean connectors or bushings?

Q. I am speaking of bushings. A. I don't know anything about them. We don't license them to make bushings, we have no license on the bushing patent.

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The Court: Do you make the bushings that you use, or do you buy them?

The Witness: We do not use them. We do not make them. We make the connectors.

Q. It is a fact, though, isn't it, that within your knowledge that at least 99 per cent. of the bushings in the connectors today are made by firms or individuals who are licensed under the patent here in suit? A. I haven't, any idea, because this patent does not cover that bushing.

Q. Yes, I know it doesn't, but you do know— A. They are not made under licenses under this patent, then.

Q. But you do know that all the large manufacturers

of electrical fixtures in the country are licensed under the patent in suit, don't you? A. I gave you a list of them.

Q. Yes, and you have already stated that you did not know whether there were any other manufacturers at all? A. I imagine there are one or two; I don't know.

By the Court:

- Q. Well, Mr. McMurtrie, does that patent provide for the use of any particular bushing, or would you say, in interpreting the patent, that any bushing on the market could be used? A. I don't know what other bushings are on the market. It provides for the use of this particular bushing.
- Q. That is the point I want to get at. Now, where would a person who desired to use connectors under your patent know of the existence of the particular bushing that you there refer to? A. Well, they must have—it requires under this patent it must have means for retaining the bushing in place, and that is not necessarily just that flange, but I have never seen any other bushing on the market.
- Q. Well, you see the bushing in the figure of that patent, do you not? A. Yes.

Q. Now, that bushing you do not manufacture or license the manufacturing of? A. No.

Q. Would it be necessary, in order to make your patent effective, that the bushing that would be used would have to be a bushing that primarily would be designed as shown in the figure in that patent? A. No.

By Mr. Crews:

Q. But there would be no point in the use of these peep-holes as shown in the patent unless the bushing actually went down under the shoulder of the flange of the connector, isn't that right? A. There would not.

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Q. If the bushing had a collar that projected or could project right out beyond the connector, then there would be no point in the peep-holes? A. No.

Q. And such a bushing could be made by simply lengthening the collar at the top of it, could it not? A. I pre-

sume so; I don't know.

Q. Well, I show you a copy of Schneider, et al., Patent No. 1,742,488. That shows a bushing—

Mr. Bohleber: Now, your Honor, I object to that. That is going into the prior art, and this witness has only been called as a practical man.

The Court: No, I will allow it. That is the Schneider patent?

Mr. Crews: Schneider, et al., 1,742,488.

Q. That patent shows a bushing having a long collar, does it not? A. Yes.

Q. And in using that bushing with connectors of the type shown in Exhibits 1 and 2, the collar would project-beyond the connector, would it not? A. Yes, sir.

Q. And there would also be means to hold that bushing in place, would there not? A. Yes, sir.

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The Court: Did you ever hear of the Schneider patents?

The Witness: Yes, I know of it.

Q. And you also know that, millions of this type of bushings have been manufactured and sold? A. No, I do not, I know nothing about that. I do know, however, that they have means of securing it in place.

Q. But you do know that some of them have been sold!

A. I don't know.

(A copy of Schneider, et al., patent 1,742,488 was thereupon marked for identification as Defendants' Exhibit A.)

Q. I show you a copy of Schneider, et al., patent, number 1,795,577. That patent shows a bushing, doesn't it! A. Yes, sir.

Q. In use with the connector? A. Yes, sir.

Q. And the connector has means for holding the bushing in place? A. Yes, sir.

Q. And the bushing has a portion which projects be-

Q. So it could be seen at all times? A. Yes, sir.

(A copy of Schneider, et al., patent 1,795,577 was thereupon marked for identification as Defendants' Exhibit B.)

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Q. I show you a copy of patent to Knoderer, 1,857,197. That patent shows a bushing, does it not, and I call your particular attention to Fig. 11? A. Yes, sir.

Q. And that bushing has a portion which projects beyoud the end of the connector, does it not? A. Yes, sir,

Q. And it has means for being retained in place by the connector? A. It has,

Q. And that patent is assigned to the General Electric Company, is it not? A. Yes, sir.

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(A copy of the Knoderer patent 1,857,197 was thereupon marked for identification as Defendants' Exhibit C.)

Q. Mr. McMurtrie, are you familiar with the Walker cable? A. Not under that name.

The Court: Walker cable? Mr. Crews: Walker, yes, sir.

Q. Walker Brothers. A. I know the firm of Walker Brothers, but I am not familiar with the cable under that name.

SAMUEL JOSELSON, of 3235 Grand Concourse, Bronz, called as a witness on behalf of the plaintiffs, being first duly sworn, testified as follows:

My name is Samuel Joselson; I live at 3235 Grand Concourse; at my last birthday I was 40 years old. I am, president of Electrical Fittings Corporation, a corporation of New York State, one of the defendants in this suit. I am the husband of Belle Joselson, one of the defendants in this case. I live with her now.

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I was president of the Joselson Sales Corporation during its existence. What has happened to that corporation is that the assets and liabilities were bought out by the Electrical Fittings Corporation, which is in existence now. Joselson Sales Corporation is still in existence in that I believe it has not been legally dissolved.

Q. How much capital stock was authorized by the Joselson Sales Corporation? A. I haven't got those figures.

Q. Well, do you know how much is issued and outstanding? A. I do not, I am sorry to say.

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Q. And who were the stockholders of the Joselson Saies Corporation? A. Samuel and Belle Joselson.

Q. How much stock did you own in the Joselson Sales Corporation? A. It is so far back I really don't remember.

The Court: What was the proportion in which the stock was held by your wife and yourself?

The Witness: Oh, I believe I owned the greatest majority of it by far.

Q. Do you have any idea what Belle Joselson held!
A. I have not, counselor.

Q. Who were the directors of the Joselson Sales Corperation? A. I don't remember that, either.

Q. Did you have directors? A. I can't even answer that.

The Court: How did you make the transfer of the assets of the corporation to Electrical Fittings Company?

The Witness: By assigning the stock of Belle and Samuel Joselson to the Electrical Fittings Corporation.

The Court: The Electrical Fittings Corporation did not take over the assets, but they became the owners of the stock of the Joselson Sales Corporation?

The Witness: They took over the assets and liabilities.

- Q. And took over the stock also? A. I don't know. I think the stock of Joselson Sales Corporation was dissolved.
- Q. Was Belle Joselson an officer of the Joselson Sales Corporation? A. Yes, sir.

Q. For what period? A. For the duration of the corporation,

Q. What office did she hold? A. Secretary and treasurer.

The Court: And you were president? The Witness: Yes, sir.

Q. Was there anybody else besides you and Joselson connected with the Joselson Sales Corporation either as officer or director? A. No, sir. I don't remember whether there were any directors.

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Q. You don't remember whether there were any directors at all? A. Of the Joselson Sales Corporation.

Q. Is the Joselson Sales Corporation actively engaged

in any business at the present time? A. No, sir.

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Q. What office or position do you hold in Electrical Fittings Corporation? A. President.

Q. Have you been president throughout its existence?

A. Yes, sir.

Q. Has Belle Joselson been connected with that corporation in any way? A. Not since the formation of the Electrical Fittings Corporation, she has not been.

Q. Well. was she connected with it when it started out,

or not? A. No. sir.

The Court Who are the other officers of the Electrical Fittings Company besides yourself?
The Witness: Mr. I. G. Trattler.

Q. And what office does he hold? A. He is vice-president and treasurer.

The Court: Who is the secretary? The Witness: I am, your Honor.

Q. And you are president and secretary? A. President and secretary.

Q. Did you bring the books of the Electrical Fittings Corporation with you? A. No, sir.

Q. You did not? A. No, sir.

The Court: Were they subpoenaed?
Mr. Bohleber: Yes, your Honor.
Mr. Crews: I beg your pardon. Mr. Fassett is, agreeing, I believe, that they were not.

Q. How long have you been secretary of the Electrical Fittings Corporation? A. Since its inception.

Q. Who are the stockholders in the Electrical Fittings

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Corporation? A. Samuel Joselson, Irving G. Trattler and Edwin J. Schneider.

- Q. You-what are their relative stockholdings in the Electrical Fittings Corporation? A: I own fifty per cent. and Mr. Trattler owns 25 per cent. and Mr. Schneider owns 25 per cent.
- Q. How long had Trattler owned 25 per cent. of the stock in the Electrical Fittings Corporation? A. Since the inception of the corporation, Electrical Fittings Corporation.
 - Q. And is that also true of Mr. Schneider? A. Yes, sir. 134
- Q. Does Trattler devote his entire time to the Electrical Fittings Corporation? A. Not the entire time.
- Q. How much? A. Well, I can't say exactly how much, but he devotes some time to this corporation.
 - Q. Well, aren't you the president of this company,
 - and shouldn't you know? A. That is right.
 Q. Well, what is the fact? A. Well, I should say he probably devotes two days a week.
- Q. What about Mr. Schneider; how much time does he devote to the work? A. He doesn't devote very much at all; he probably spends an average of one day a week.
- Q. And outside of his work with your corporation, what does he do, if you know? A. Well, I don't know just what title he has with the Eastern Tube & Tool Company. I believe he is vice-president of the Eastern Tube & Tool Company.
- Q. Do you do business with that company? A. I represent them as a sales agent.
- Q. They are known as Ettco, are they not? A. When I say I, I mean Electrical Fittings Corporation.
- Q. That company is also known as Etteo, is it not? (A. No, sir; they use that as a brand, a name.
- Q. The products manufactured by the Eastern Tube & Tool Company - A. Pardon me?

Q. For products manufactured by the Eastern Tube Company? A. Right.

The Court: Is Mr. Trattler connected with any other business, so far as you know?

The Witness: Yes, sir. Now, your Honor, it comes back to me that Mr. Schneider is the president of the Eastern Tube & Tool Company, and Mr. Trattler, I believe, is vice-president or treasurer. I really don't know what their titles are.

The Court: Well, they are both connected with

The Witness: With the Eastern Tube & Tool Corporation.

Q. Where are the books of the Joselson Sales Corporation? A. In our office.

Q. And who has custody of the same? A. We have, the officers.

Q. Which officers? A. All officers have custody.

Q. You mean all of the officers of the corporation have charge of the books, custody of the books? A. Well, they have the access to the books.

Q. That includes Belle Joselson, is that right? A. Belle Joselson? Do you mean of the Joselson Corporation books?

Q. Yes. A. Yes, sir.

Q. You were called to testify in this case by subpoena, were you not? A. Yes, sir.

Q. That is, to testify for plaintiffs? A. Yes.

Q. Where were you over the weekend, that is, the last weekend? A. This weekend?

Mr. Crews: I object, your Honor.

The Court: What is the materiality of that! Mr. Bohleber: We have been trying to subpoena these books, your Honor, and have had all kinds

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of difficulty, and all of the reports that we got were that Belle Joselson; secretary of the old company—

The Court: You served this witness with a subpoena.

Mr. Bohleber: We served him with a subpoena. We did not know he was the secretary of the company.

The Court: Well, it would not have made any difference, you could have served him with a subpoena as president of the company.

Mr. Bohleber: Yes, but we thought we would serve the secretary, who usually has the custody of the books, and we have had difficulty with—well, it has been impossible to get service.

The Court: Well, where would you expect to find the secretary of the corporation which went out of business some time ago?

Mr. Bohleber: Well, we would expect to find them at their home.

The Court: I don't see that it is material where he was over the weekend: It is more pertinent to find where he is going to be over the next weekend.

Mr. Bohleber: This corporation, the Joselson Sales Corporation—

The Court: The point about it is, he is here now. He is here now.

Mr. Bohleber: Well, will you direct him to bring their books?

The Court: No. You can serve him with a subpoena.

Mr. Bohleber: All right.

Q. Are you an officer or director of the Eastern Tube & Tool Company? A. No, sir.

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Q. Do you own any stock in that company? A. No voting stock.

The Court: Well, the question is, do you own any stock?

The Witness: Yes, I own some preferred stock

Q. How much? A. I believe it is about-

Q. That is, just the proportion is all I am interested in. A. In dollars and cents I can give it better, I believe. Well, it is about 50 shares.

Q. And what is the capitalization of the company? A. I don't know.

The Court: What is the par value of the stock?

The Witness: \$100.

The Court: \$5000 worth of stock?

The Witness: That is right.

The Court: At par?
The Witness: Yes.

Q. What is the relation between the Electrical Fittings Corporation, as a business, and the Eastern Tube & Tool Company? A. No relationship at all.

Q. No business relationship? A. No.

The Court: Well, didn't you state a minute ago— The Witness: Well, they represent them.

The Court: Your company is the sales agent?

The Witness: We are sales representatives.

The Court: Of products of the Eastern Tube & Tool Company?

The Witness: That is right. We are sales representatives. I did not quite get it down.

Q. Does the Electrical Fittings Corporation own any of the stock of the Eastern Tube & Tool Company? A. No, sir.

- Q. What do you know about the Efcor Sales Corporation? A. The Efcor Sales Corporation is a corporation for—it is the Efcor Sales Corporation that is the sales agent for the Eastern Tube & Tool Company. That is what it is, it is not the Electrical Fittings Corporation at all.
- Q. Well, now, which is it? A. The Efcor Sales Corporation represents the Eastern Tube & Tool Company. The Electrical Fittings Corporation has no connection whatsoever.
- Q. What is the relationship between the Efcor Sales Corporation and Electrical Fittings Corporation? A. Well, it has the same owners, if that is what you mean.

Q. What do you mean by the same owners?

The Court: Is the stock of the Efcor Sales Corporation held by Mr. Trattler and Mr. Schneider and yourself?

The Witness: Yes, sir.

The Court: And in the same proportion?

The Witness: The same proportions.

The Court: That you own the capital stock of the Electrical Fittings Corporation?

The Witness: Yes, sir.

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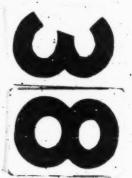
- Q. And who are the officers of the Efcor Sales Corporation? A. May I ask him to give me that envelope that I have there? I have got it in there. I don't remember it now. (Envelope handed to witness.) The officers of the Efcor Sales Corporation are Mr. Trattler as president, Mr. Schneider as secretary and treasurer, and I am vice-president.
- Q. Who are the directors of that corporation? A. There are no directors.
- Q. Beg pardon? A. I don't believe there are any directors of the corporation.

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Q. Who are the directors of the Electrical Fittings Corporation? A. Mr. Trattler, Mr. Schneider and myself.

> The Court: Don't you have meetings of the board?

The Witness: We do.

The Court: Well, now, when you have meetings of the board, who are the directors present?

The Witness: Just the three of us: Mr. Trattler.

Mr. Schneider and myself.

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Q. Are you a director of the Eastern Tube & Tool Company? A. No, sir.

Q. When was the Efcor Sales Corporation incorporated? A. (Examining papers.) The Efcor Sales Corporation—I did not get that. I believe it was in 1936 or 1937, rather. It was this year.

> The Court: This year? The Witness: Yes, sir.

(A certified copy of certificate of incorporation of Efcor Sales Corporation was thereupon offered and received in evidence from Plaintiffs' Exhibit 20.)

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Q. Do you know what the capitalization of Efcor Sales *Corporation is?

> The Court: Doesn't the certificate of incorporation show that?

Mr. Bohleber: Yes, your Honor.

Q. When did your attention first come to the fact that there was such a patent as the Fullman patent in suit? A. Oh, I heard about that when the Thomas & Betts Company started to license other manufacturers

and told them that they had to come under that license to safeguard the market.

The Court: Well, when was that?

The Witness: That was probably in 1931 or 1932.

Mr. Crews: If your Honor please, after we got through with the hearing yesterday, attorneys for the plaintiffs asked us if we would produce the books and minute books of these three corporations, Joselson Sales, Electrical Fittings and Efcor Sales. We agreed to do so, and they are here today. Also Mr. Joselson tells me that he checked the books and there are a few mistakes in his testimony yesterday with regard to the ownership of the stock that he would like to correct.

The Court: He may do that. Do you want to have those books marked for identification?

Mr. Bohleber: Yes, your Honor.

The Court: So that if, as and when they are referred to, reference can then be made to the particular book that is in use.

Mr. Bohleber: Yes, your Honor.

The Court: I think it might be a good thing if you just take those books and list them up here with the stenographer. Take the Joselson Company first and just mark them. What is the next exhibit number?

(The minute book of the Joselson Sales Corporation was marked Plaintiffs' Exhibit 21 for identification.)

(The stock certificate book of the Joselson Sales Corporation was marked Plaintiffs, Exhibit 22 for identification.)

(The stock transfer book of Joselson Sales Corporation was marked Plaintiffs' Exhibit 23 for identification.)

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(The minute book of Electrical Fittings Corporation was marked Plaintiffs' Exhibit 24 for identification.)

(The stock certificate book of Electrical Fittings Corporation was marked Plaintiffs' Exhibit 25 for identification.)

(The stock transfer book of Electrical Fittings Corporation was marked Plaintiffs' Exhibit 26 for identification.)

(The minute book for the Efcor Sales Corporation was marked Plaintiffs' Exhibit 27 for identification.)

(The stock certificate book for Efcor Sales Corporation was marked Plaintiffs' Exhibit 28 for identification.)

The Court: All right. Now what correction do you expect to make in the record of the testimony of Mr. Joselson based upon these books?

Mr. Crews: He has a memorandum, your Honor, showing exactly the stock ownership at all times.

The Court: Well, show it to Mr. Bohleber and let's see if we can't agree by stipulation on those changes, or if not, you can put him back on the witness stand.

Mr. Crews: I believe, your Honor, that the only change in his testimony is that instead of 50 shares of Eastern Tube & Tool he owned originally, back in 1927, 25 shares of the voting stock, and that was converted in 1930 to non-voting preferred stock, of which he got 43 shares and those 43 shares were transferred to his wife on February 1, 1932. That is the only change.

The Court: All right.

Mr. Crews: And he says he also may have gotten some of the officers wrong. They are the

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same men but he may have got the statement wrong as to which offices they held.

The Court: Well, after counsel have examined the minute books, if there is any change indicated in the minute book that differs from the testimony of the witness, that can be changed in the testimony or it can be done by stipulation or agreement.

Mr. Bohleber: Yes. I think probably it will simplify matters, your Honor, if at the conclusion we enter into a stipulation on this whole matter.

The Court: Well, we will wait until you have had an opportunity to examine the books as to each of these companies.

Mr. Bohleber: Yes.

- Q. Mr. Joselson, what is the present address of the office of the Joselson Sales Corporation? A. Well, it would be 663 Broadway.
- Q. And what is the present address of the Electrical Fittings Corporation? A. 663 Broadway.
- Q. And the Efcor Sales Corporation! A. 663 Broad-

Q. They are all located in the same office; am I right?. A. Yes. sir.

Q. And have the Joselson Sales Corporation and the Effect Sales Corporation always been located in the same fixes of Electrical Fittings Corporation? A. At the ime that Joselson Sales Corporation was in existence here wasn't any Efcor Sales Corporation. Efcor Sales Corporation was only incorporated on February 15, 1937.

y the Court:

Q. Well, has its office since its incorporation been the same address? A. Yes, sir.

- Q. As the- A. Joselson Sales Corporation.
- Q. And the Electrical Fittings? A: Yes, sir.

By Mr. Bohleber:

Q. Now tell me fully the nature of the business of the Efcor Sales Corporation. A. The Efcor Sales Corporation is a corporation for the purpose of sales agent for manufacturers manufacturing other commodities, than what the Electrical Fittings Corporation is selling.

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Q. Does it represent as agent any other corporation besides the Electrical Fittings Corporation? A. It does not represent the Electrical Fittings Corporation; it represents the Eastern Tube & Tool Company.

Q. Any other corporation besides the Eastern Tube &

Tool Company? A. No. sir.

Q. It does not represent the Electrical Fittings Corporation in any way? A. No, sir.

Q. Does the Electrical Fittings Corporation represent the Efcor Sales Corporation? A. Well, just how do you mean?

Q. Does it represent in any way, the Efcor Sales Cor-

- 'Q. Does Electrical Fittings Corporation manufacture any articles itself? A. No, sir.
 - Q. What does it do? A. It purchases and sells.
 - Q. It has no agent for selling? A. Yes, sir.
- Q. Other than individuals? A. Will you explain that please?

The Court: Has it any corporate representative! The Witness: No, sir. We have agents who sell these commodities all over the country.

The Court: Well, corporations or individuals?
The Witness: Individuals.

The Court: Electrical Fittings has not appointed other corporations as its selling agents?

The Witness: No, sir.

Q. Does the Efcor Sales Corporation do any manufacturing itself? A. No, sir.

Q. I show you your letterhead, one which was used by you on November 22, 1937, and point out to you that it says thereon in effect that Electrical Fittings Corporation—that is the name of the corporation's letterhead here—"Manufacturers of Efcor Products." How do you explain that? A. Well, we buy this material from manufacturers and put them up under our label and we sell it to the jobbers under our label as manufacturers.

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Q. Where does the name "Efcor" come in?

The Court: Well, isn't that quite apparent? Mr. Bohleber: I think so, your Honor.

Q. When sales are made by the Efcor Sales Corporation, who bills for them? A. The Eastern Tube & Tool Company.

Q. Now, you testified yesterday that Belle Joselson was secretary-treasurer of the Joselson Sales Corporation from its inception and down to date. What were her duties?

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The Court: No; I don't think he said down to date.

A. I said down to the time that the Electrical Fittings Corporation has taken over their assets and liabilities.

Mr. Bohleber: I think you are right, your Honor.

Q. What were her duties as secretary and treasurer? A. Well, nothing particularly, just being an officer of the corporation.

Q. Did she spend any time at the offices of the cor-

poration? A. At one time she used to come down regularly daily for a while.

The Court: Well, did she sign checks as treasurer?

The Withess: No. sir.

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The Court: Did she sign documents as secretary?

The Witness: No, sir.

Q. How long did that continue of her coming down to the office? A. I believe it was about six months.

Q. Well, who succeeded her then as secretary-treasurer after the A. She still remained secretary and treasurer.

Q. Who did the work of secretary-treasurer when she was absent? A. Well, it was a closed corporation; there wasn't really any work attached to the office.

Q. Then you were the sole executive and manager of all the affairs of the Joselson Sales Corporation; is that right? A. That is right.

Mr. Bohleber: Your Honor, that concludes our prima facie case excepting we may want to examine this witness a little further about the books of the corporation.

Cross Examination:

Q. Mr. Joselson, has your wife ever manufactured any connectors? A. No. sir.

Q. Ever sold any connectors? A. No, sir.

Q. Have you ever manufactured any connectors individually?. A. No, sir.

Q. Have you ever sold any connectors on your own behalf? A. No, sir.

Q. Has the Electrical Fittings Corporation at any time ever manufactured any connectors? A. No, sir.

Q. Has the Joselson Sales Corporation at any time manufactured any connectors? A. No, sir.

Q. Was the Joselson Sales Corporation solvent throughout its history? A. Yes, sir.

Q. Has the Electrical Fittings Corporation been solvent throughout its history? A. Yes, sir.

Q. To what class of customers have the connectors sold. by these two corporations that are the defendants here been sold? 'A. To jobbers.

Q. What do they do with the connectors? A. Well, they resell them to the electrical contractors or the industrial-

O. Have either of the defendant corporations ever sold a connector to anyone who actually used that in connection with a bushing and a cable? A. No, sir.

Q. They have sold only to persons or corporations who have resold them to the trade? A. Yes, sir,

Q. Were you ever notified by the plaintiff in this action in any way that you were infringing the patent in suit, prior to the time you were served with a bill of complaint? A. No, sir. .

Q. And that was your first notice? A. Yes, sir.

Q. What did you do when you were served with that 171 bill of complaint? A. Well, I called Bohleber & Ledbetter on the phone, at the time, and I spoke to Mr. Fassett on the phone, and I asked him what it was all about, and he suggested that I come up and talk and he will tell me about it when I get up there. When I got up there, he simply told me that we were infringing on their patent, and he showed me a couple of connectors that he bought from a jobber in New York and he asked me whether I recognized these connectors, and I said I recognized them as being made by the-one by the Steel City Electric Company and the other by the Chicago Steel Tank, which is now the Conduit Fittings Corpora-

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tion; whether I sold these particular connectors to the jobber I did not know, because it is very possible that those manufacturers sold them to them direct because they do sell to the jobbers the same as we do.

- Q. Did you say anything to Mr. Fassett with regard to the question of license? A. Yes, I told him that thehe told me at that time about Sterling having the license cancelled, and of course I told him I did not know any. thing about it and it was not my intention to buy anything from anybody who was not licensed by the Thomas & Betts Company. I then asked him to please advise me of any future cancellations, and he said the company, the Thomas & Betts Company, would so advise me.
- Q. You were informed of the names of the licensees, because they were listed in the bill of complaint? A. Yes, sir.
- Q. And he said he would advise you if there were any cancellations? A. Yes, sir.
- Q. Had you been advised of any cancellations? A. No. sir.
- Q. Have you, since the filing of this bill of complaint in this action, purchased any connectors from any com-174 pany that was not listed in the bill of complaint as a licensee? A. No. sir.
 - Q. Mr. Joselson, how did you happen to get started in the business of selling connectors originally? Will you tell us your story? A. Why, I was in the sales agency business and at the time I had my office in 43 West 16th Street, I believe it was there, and a man by the name of · Mr. Eccles, who operated the Sterling Manufacturing Company, came up to me and said he has a proposition where he will manufacture these items-
 - Q. What items? A. Electrical fittings, and he would put me in a position where I could compete with any of the manufacturers.

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The Court: When was that conversation?

The Witness: That was in 1932. And I said to him, "All right, let's see your proposition"; and he gave me the proposition and it was interesting, and when he came to the connector, I said to him, "Now, I understand that the Thomas & Betts Company have a patent on that," and I said, "I don't want to get mixed up in this if you are not licensed." And he said, "Well, I absolutely am licensed." I said, "Well, can you show it to me right now?" He said, "Well, I haven't got the license with me but," he said, "I will be down to see you before the week is over and I will have the license with me," and, oh, maybe two or three days later he was down again and had the license, the original Thomas & Betts license, with him, and he showed it to me and he walked out and he left the license with me, which I believe is—we have it here now.

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Q. This was the license under the patent in suit from homas & Betts to the Sterling Manufacturing Company?

. Yes, sir.

- Q. And you still have the license in your possession?

 Yes, sir.
- Q. In buying these connectors from other companies, we you always ascertained as to whether or not they ere licensed? A. I have always made it a point to find at from the manufacturers or their representatives hether they were licensed by the Thomas & Betts Commun.
- Q. And have you ever refused to buy connectors from ayone who was not licensed? A. Well, I have never had aybody approach me who was not licensed.
- Q. Have you ever, in ordering connectors, ordered con-

nectors specifically of the peephole type as illustrated in Plaintiffs' Exhibits 1 and 2? A. Well, in ordering connectors we simply specify either set-screw or squeeze type.

Q. You have never specified that they shall be peep-

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hole connectors? A. No, sir.

Q. Or that they shall be of the particular type of Plaintiffs' Exhibits 1 and 2? A. No, sir.

Q. Why have you not specified that type of connectors!

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Mr. Bohleber: Your Honor, I think that is going beyond the direct examination.

The Court: Objection sustained.

Q. How did you happen to stop buying connectors from the Sterling Company?

Mr. Bohleber: Same objection, your Honor.

The Court: I will sustain the objection until you show that he did stop buying, and when.

Mr. Crews: That is shown, I believe, your Honor, by our answers to the interrogatories which are in evidence. They show just—

The Court: Well, there is no harm in you stating it now.

The Witness: Will you please repeat the question?

(Question read by stenographer.)

The Court: No. One minute. I sustained the objection to that. What is the date in the interrogatories when they stopped buying from Sterling!

Q. 1934; is that correct?

Mr. Bohleber: In 1933-February, 1933.

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The Court: February or March? Mr. Bohleber: February, 1933.

Q. I think it was later than that; I think it was 1934. Oh, Yes; I bought them right through to 1934, to July 1934.

The Court: July of 1934?

The Witness: Yes.

The Court: The witness makes that correction.

Mr. Crews: Well, do I understand I may now 182 ask my question, your Honor?

The Court: You may ask him what happened.

Mr. Crews: Yes.

Q. What happened along in July of 1934 in connection the Sterling Company? A. Why, that company—was quite evident that they were going bad, their shipments were bad, you could not get any fittings from them; fore they made a shipment they used to call me up and a me if I could not advance them some money. In other rds, it was quite evident that the connection there was as good as it used to be.

Q. And they-were disposing of the stock they had on ad? A. Yes, sir, they were down offering all kinds

bargains.

Q. Can you tell me what company made that particular mector, Plaintiffs' Exhibit 1?

Mr. Bohleber: Your Honor, I object to it. It is clearly beyond the direct examination of this witness.

The Court: The witness may state whether he can tell or not; he can say yes or no.

The Witness: Yes, sir; I can tell you definitely

that this connector was made by the Steel City Company.

Q. How do you identify it? A. By their marking, which can be corroborated by—

The Court: No. By their marking. What is the marking?

The Witness: A star or cross on the top of the connector.

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Q. Will you please point it out to the Court just where it is?

The Court: He has, but I was trying to fix in my own mind some designation that could be made on the record to show. Do you call that a lip, or what do you call it where the mark is?

The Witness: Well, that is a finger. That is what the patent in suit terms as a finger; am I correct

in that?

Mr. Crews: I believe so. On one of the— The Witness: One of the projecting fingers.

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Q. The mark appears on one of the projecting fingers; is that right? A. That is right.

Mr. Bohleber: Your Honor, I object to the testimony along this line because it is immaterial. These are not charged to be infringing devices. We base our charge of infringement upon the answer to the interrogatory.

The Court: I realize that.

Q. Can you tell me what company made the connector of Plaintiffs' Exhibit 2? A. This was made by the Chi-

cago Steel Tank Company, which is now the Conduit Fittings Corporation.

Q. How do you recognize that? A. Well, I recognize that—in the trade we all know that they use a smaller type of screw and they never finish it, and then they have that square type of lock-nut.

Mr. Crews: That is all, your Honor. The Court: Any further questions?

Re-direct Examination:

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Q. Do you have with you the license to Sterling Manufacturing Company? A. Yes, sir.

Q. Will you produce it, please? A. It is at the table there. (Document handed to Mr. Bohleber.)

(The Sterling license agreement was thereupon offered and received in evidence as Plaintiffs' Exhibit No. 29.)

The Court: Is there objection?

Mr. Crews: No objection, your Honor.

Mr. Bohleber: Your Honor, we rest except for an examination of these corporate books.

The Court: That is except for an examination of the books which have been marked Exhibits 21 to 28 inclusive for identification?

Mr. Bohleber: That is right.

DEFENDANTS' PROOFS.

(Plaintiffs' answers to interrogatories which were verified on April 13, 1936, were offered and received in evidence as Defendants' Exhibit D.)

EDWIN J. SCHNEIDER, 594 Johnson Avenue, Brooklyn, New York, called as a witness on behalf of the defendants, being duly sworn, testified as follows:

191 Direct Examination:

My name is Edwin J. Schneider. I am 44 years old. I live at Jamaica, Long Island.

I am President of the Eastern Tube & Tool Company. I have been president of that company about 10 years.

I am the E. J. Schneider who was a co-patentee of Patent No. 1,742,488, which has been marked as Defendants' Exhibit A for identification. We assigned that patent to the Eastern Tube & Tool Company at the time we made the invention. The Eastern Tube & Tool Company has manufactured under that patent. The article you hand me is a bushing of the type that is shown in this patent. We made many millions of bushings of this type. Over thirty million.

The Court: You mean millions of bushings! The Witness: Bushings, yes. Over thirty million.

Those bushings were made beginning in 1929, until about the middle of the current year, the middle of 1937. We stopped making them because we sold our patents. They were sold to the National Electric Products Corporation, one of the plaintiffs in this case.

(The bushing just described by the witness as being made under this patent, was thereupon offered and received in evidence as Defendants' Exchibit E.)

Mr. Crews: I also offer in evidence the patent which has been marked for identification as Exhibit A.

Mr. Bohleber: I object to that, your Honor. The Court: Overruled.

Mr. Bohleber: Will your Honor hear me on it? The Court: Yes, I will hear you on it.

Mr. Bohleber: I don't see that this has any bearing upon this. It is what they have sold and not the patent itself which has to do with the issues here involved.

The Court: Well, the patent may or may not be material. Of course the really material thing is the bushing itself.

Mr. Bohleber: Yes, that is right.

The Court: I can't see that there is any particular harm in the reception of the patent, and I will receive it anyway and give you the benefit of an exception.

Mr. Bohleber: Thank you.

(Defendants' Exhibit A for identification was thereupon received in evidence as Defendants' Exhibit A.)

Bushings of the type of that Exhibit A are perfectly adapted for use with connectors of the type of Plaintiffs' Exhibits 1 and 2; that is what they were made to work with. I would say most of them have been actually used by the trade with connectors of this type. There are other kinds of connectors.

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The Court: Do you know whether they were or not?

The Witness: I know that a great many of them were, but there are other types of connectors also in the field.

The Court: And there are other types of bushings?

The Witness: Yes, there are other types of bushings.

I am also a co-patentee of United States Patent No. 1,795,577, which has been marked for identification as Defendants' Exhibit B. When we made that invention we assigned it to our company. The article you hand me is the type of bushing indicated in this Patent No. 1,795,577.

Mr. Crews: I offer in evidence the patent which has been marked for identification as Exhibit B.

Mr. Bohleber: Same objection.

The Court: Same ruling.

Mr. Bohleber: Exception.

(Defendants' Exhibit B for identification was thereupon received in evidence as Defendants' Exhibit B.)

(The bushing which the witness just described was thereupon offered and received in evidence as Defendants' Exhibit F.)

This bushing of Exhibit F is adapted to be used with connectors of the type of Plaintiffs' Exhibits 1 and 2. My company made some samples of these bushings, but we never made quantities of them and never sold them. That was for this reason: It came about that the armored cable manufacturers gave bags of bushings with each coil of cable without any extra charge. The bag of bush-

ings was attached to each coil of cable. Now, if we were to make a connector incorporating this invention here, a bushing attached to it, we would have to get a considerably additional price in the market for such a connector as opposed to the ordinary type of connector without the bushing, and inasmuch as the electrician already had bushings furnished with his cable, he had no reason to pay us money for a duplication of the bushing inside the connector, so we never even tried to get to first base for that reason; it did not look sensible commercially.

I think that the bushing Exhibit F is a better bushing to use in a connector on an electrical job than the bushings that were used in—well, than the bushings that are ordinarily supplied with cable. It is insulated to a greater extent.

The Court: Would you say that bushing F was superior in character and quality to the bushing E?

The Witness: In insulating quality, yes.

Q. Bushings E and F, are those two— A. I answered that very hastily. I did not really know what type you have there.

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By the Court:

Q. They are both your own. A. Are superior to what? Q. No; I asked you if you say that bushing F is superior in quality and character to bushing E? A. I really misunderstood your question. No. Those two would do substantially the same thing. One was—

Q. How do you account for the fact that you have such a large sale of the type evidenced by Exhibit E and a very light sale of the type evidenced by Exhibit F! A. Well, that is type E they gave away with the coil of

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cable and it was adapted to slip right into the connector. You see, there is no extra collar out there, that is a separate shoulder.

Q. Would it cost you more or did it cost you more to make Exhibit F than Exhibit E? A. A little more.

.By Mr. Crews:

Q. Was that little more an important difference in regard to merchandising? A. The way this stuff is sold every difference is important. It is sold on a very close margin. This is an item which is manufactured in the millions, and we have to watch the unit costs very closely.

Cross Examination:

Q. Mr. Schneider, I call your attention to Defendants' Exhibit B, and I ask you to read aloud from page 2, lines 6 to 15, and explain what it means? A. Lines 6 to 15?

Q. On page 2. A. Yes.

"In practice, the shield 20 is inserted in the coupling by arranging the flange 15 in the recess 26 and with the pointed end projecting through and beyond the clamp, collar or ring 16."

I would have to refer to the numbers on the drawing. Q. Yes, you may refer to them.

The Court: Have you a copy of the patent?

The Witness: I have it right here.

The Court: I mean a copy of the drawing?

The Witness: Yes, sir; it is on the patent, your Honor.

The Court: You may refer to the figures. You better read the next sentence.

The Witness: "When mounted in this position, the shield constitutes a unit part of the coupling and cannot be removed therefrom except by compression of the walls of the shield so that the projections 24 and 25 will clear the flange 15."

Q. That is as far as I asked you to read. Isn't it a fact that this patent—

The Court: No; you asked him to explain what that meant.

Mr. Fassett: Very well.

A. Well, that means just this: This connector has a double collar on it, as you can see, with a recess in between the two high collars.

The Court: Referring to what number; what figure?

The Witness: Take Fig. 2.

The Court: All right.

The Witness: You see two collars, 24 and 25, of a greater diameter than the No. 26. Now, if you just squeeze the connector slightly you can get No. 15 on the connector to catch in between the two high rings.

Q. I see. A. In other words, this was really meant to be sold in that way, assembled and complete.

Q. Defendants' Exhibit F, then, was intended to be sold as a unit with the connectors shown in Fig. 2 of this patent, Exhibit B? A. That is correct.

Q. It was not a separate bushing? A. Well, we could

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have sold it either way, but our intention was that it was a combination proposition, connector and bushing.

- Q. Now I wish you would tell me whether the flange which is indicated by the numeral 15 in Fig. 2 of this patent is a confinuous circular flange? A. It used to be, but then this in the picture with a cutout—
 - Q. No; I mean what is it in this patent?

The Court: He is speaking now of this patent.

A. Oh, in this patent?

9 Q. Yes. A. Well, the drawing here indicates that it is a complete circle without any openings.

Q. Wouldn't you say that the flange 15 shown in Fig. 2 of this patent is probably the same as the flange on Plaintiffs' Exhibit 17, which I hand you? A. Yes; it looks like the same thing.

Q. I hand you Plaintiffs' Exhibit 1, and I ask you if you can tell me what the purpose of the notches in the flange of that cable are for? A. As I understand it, the idea was to give greater visibility:

Q. What do vou mean by greater visibility? A. Well, if you insert a bushing in this end here, not of this type-

Q. What end do you mean? A. If you take the bushings of the type—

Q. I will hand you a bushing. Will you explain to me how that bushing is intended to be used?

The Court: Let's have the record show that that is a duplicate of the bushing which has been put in evidence by the plaintiffs, No. 15.

Mr. Fassett: I did not know that that had been marked, your Honor.

The Court: Am I correct in that?

Mr. Fassett: I did not hear that. What happened, your Honor?

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The Court: I mean am I correct in saying that that is a duplicate of that bushing?

Mr. Fassett: Yes, that is a duplicate of the bushing.

The Court: Of your bushing No. 15?

Mr. Fassett: Well, it wasn't marked. It became a part of Exhibit 16.

The Court: Yes, it was marked 15, and it went into Exhibit 16.

Mr. Fassett: That is correct, your Honor.

The Court: I merely want the record to show 212. what the particular object is which the witness is referring to in the testimony that he is now giving. Mr. Fassett: That is correct, your Honor.

Q. Will you explain how that bushing, Exhibit 15, is intended to be used? A. Why, you could use it in various ways. One of the customary uses is to insert it in the cable as you have it here.

Q. And when it is inserted in the cable—

The Court: Is that cable marked?

Mr. Fassett: This is not. I am going to mark it. 213 The Court: All right.

(The cable referred to by the witness was thereupon marked in evidence as Plaintiffs' Exhibit No. 30.)

The Witness: I notice this is a 3-conductor cable, and the great bulk of cable, or the great majority of the cable used is 2-conductor. This happens to be a 3-conductor.

Q. But when a bushing is used like this one is used on Exhibit 30, the notches in Exhibit 1 are used so that you can see whether that bushing is in place, isn't that

so? A. I understood that was the purpose, to give greater visibility to the bushing.

Q. Well, there is no occasion for having a coupling with notches in the face of it if you are using bushings like Defendants' Exhibit E, is there? A. No, there would not be at all.

Q. I believe you testified that your company manufactured and gave away bushings like Defendants' Exhibit E. Is that true? A. That is correct.

Q. And you gave them with cable which you sold of 215 the type shown by Plaintiffs' Exhibit 30? A. Of that general type; I don't know what the details were.

The Court: The witness calls attention to the fact that that is a 3-conductor cable.

The Witness: Yes.

The Court: And he said generally they are 2-conductor.

Mr. Fassett: Well, that is not important. By conductors he means these wires.

The Court: I know. I morely mention that so that the record will show.

The Witness: Shall I explain why I mention that! The Court: Not unless counsel wants you to do so. Mr. Fassett: I think it is clear.

Q. But the armor on the cable, whether it has three or two conductors, is the same, isn't it, varying but little in size? A. The diameter would vary.

Q. Well, that is all? A. That is an important point.

Q. Well, when you said in your testimony that you sold thirty million—

The Court: He didn't say he sold thirty million; he said they made over thirty million, according to my notes.

Q. Well, the thirty million-

The Court: I may be wrong, but I note it here that the witness said they made many millions, over thirty; I didn't understand him to say they sold them.

Q. Well, those that you made you gave away with the cable? A. Gave away or sold. We sold some also.

Q. You did?

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The Court: Can you say what proportion of the thirty million you sold and what proportion you gave away?

The Witness: At least two-thirds we sold in the form of bushings.

- Q. Of those bushings which you gave away with the cable, do you have any idea how many of them were used? A. I would rather think that almost every one of them.
- Q. I see. A. No one would buy them except to use them or sell them.

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- Q. Of these bushings that were given away with cable that you sold, do you know what type of connector was used with them? A. Well, I would not know; I would not know.
- Q. Well, so far as you know, they could have been used with a connector like Plaintiffs' Exhibit 1? A. I think many of them were.

By the Court:

Q. Did you sell connectors with the cable? A. No, we never sold connectors, speaking for my company, we never sold any.

Q. But your company did sell cables? A. On, they manufactured and sold cable.

Q. And made the cable? A. Made the cable and sold it.

Q. And with the cables you sold or gave away the bushings? A. We gave away the bushings with cable which we had manufactured and sold, and we sold bushings just individually as bushings.

Q. As bushings? A. For instance, to other manufac-

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turers or to a jobber customer.

Q. And when you sold cables and either sold with the cables or gave the bushings, was it necessary for the persons who purchased that cable and those fittings to use the connectors? A. Yes, they had to use the connector.

Q. But you did not furnish the connectors? A. We did not furnish them; no, sir. That was not our line of business.

Q. Well, were the bushings that you manufactured made with reference to any particular type of connector? A. Just these standard connectors of the type that we have here.

222 By Mr. Fassett:

- Q. When you sold cables with bushings like Defendants' Exhibit E, isn't it possible that those bushings may never have been used, but instead they used bushings like Plaintiffs' Exhibit 15? A. Very unlikely.
 - Q. Well, do you know? A. I never knew of a case.
- Q. You don't know—you would not know whether or not they may have done that? A. Well, I think I would have heard of it if it were an appreciable percentage.
- Q. But you don't know? A. It might have been an isolated case, somewhere in the country, but I know this bushing was well regarded in the trade.

Q. But you don't know that that might not have been one? A. To what extent, a hundred per cent?

The Court: To any extent.

- Q. To any extent. A. Well, it might have been a half f 1 per cent., but I am certain it could not have been ny great extent or we certainly would have heard of it, complaints would have come back to us.
- Q. The fact is that you don't know to what extent your ushings, Defendants' Exhibit E, were used; you just herely know how many of them were given away? A. How many I gave away and how many I sold.
- Q. Yes. You know that? A. I know that. I have seen hem in the field, used.
- Q. Beyond that you would not know that; is that true?

 L. I could not know much beyond that.

By the Court:

- Q. Do you know of any other type of connector besides the type which is here in evidence as Exhibits 1 and 2? Besides this regular type we have here, 1 and 2, I hink there was a clamp connector used in some cases. You may have samples there, if you have gone into conectors.
- Q. Well, do you recognize in the two exhibits now beore you, 1 and 2, the type of connector generally used
 hroughout the trade? A. I think the greater percentage
 rould be this type.

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SAMUEL JOSELSON, recalled as a witness on behalf of the defendants, being previously sworn, further testified as follows:

In ordering connectors we never ordered any particular type of connector—just set-screw or squeeze type. We never specified the peephole type of connector, as exemplified in the Exhibits 1 and 2. We didn't specifically order this kind because I have never believed it to be of any commercial value. It didn't really make any difference whether we sold with the peephole or without the peephole, it was acceptable either way. The trade did not care which it got.

When we sold connectors I can't recall whether we ever received any orders for the peephole type. There might have been one or two instances, but I just can't recall it. One or two out of, oh, out of hundreds. The trade simply ordered connectors, and we supplied them. We supplied them with whatever connectors we got when we ordered connectors.

Cross Examination:

Q. Mr. Joselson, how do you reconcile your testimony that you have just given with Article 5, Section 505(g), page 52 of the National Electrical Code? I refer to Plaintiffs' Exhibit 18 for identification, and I call your attention particularly to the last sentence thereon. A. Well, it is my contention that the other type of connector is just as feasible as the so-called peephole type.

The Court: What other type of connector? The Witness: Without the peephole.

The Court: Well, what other type are you referring to? Are you referring, for instance, to Plaintiffs' Exhibit No. 17?

The Witness: Yes, sir. .

By the Court:

Q. Do you know of any other types of connectors sold on the market in addition to the types indicated by the samples here in evidence, Exhibits 1, 2 and 17? A. Yes, sir; there are several other types.

Q. How many? A. Oh, there are probably maybe three

or four other types of connectors.

Q. Well, do you regard the type evidenced by Exhibits 1 and 2 as the type in more general use? A. I would say that they were used to a greater extent than any of the others.

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Q. Do you handle any of the others? A. Well, whatever the factory ships, why, we sold, and that is what we shipped out.

Q. What factory? A. The factory we purchased from.

Q. Well, did you purchase any type of connectors different from the connectors shown by Exhibits 1 and 2? A. Well, I didn't make it a point to specify any others, but if they had shipped it as Exhibit 17, I believe it is, why, it is perfectly all right with us.

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Q. Well now, what is the proportion of connectors which you have received in the past year of the type of Exhibit 17 as compared with connectors of the type of Exhibits 1, and 2?. A. Oh, I don't believe it would be over 10 per cent., that is the 17 will not be over 10, per cent. of that, of 1 and 2.

Q. Do I understand that when you order these connectors you have no specific request of your prospective customer? A. No. sir.

Q. For any particular type of connector? A. Other than a set-screw or a squeeze type. That is the difference between Exhibits 1 and 2.

Q. Yes, I know. All right.

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FREDERICK LATZER, 3511 Hull Avenue, Bronx, New York, called as a witness on behalf of the defendant, being duly sworn, testified as follows:

Direct Examination:

My name is Frederick Latzer. My age is 44. I live at 3511 Hull Avenue, Bronx. My occupation is consulting engineer.

Q. Will you please state what qualifications you have that would enable you to testify as an expert in this case?

By the Court:

- Q. Are you a graduate of any school of engineering!
 A. Yes, your Honor.
- Q. What school? A. Cooper-Union, New York, night school.
 - Q. When? A. 1915.
- Q. And have you been engaged in the practice of the profession of engineering since that time? A. Since before that time.
 - Q. And in what particular line of activity? A. Very largely in the building construction industry on the electrical end.
 - Q. In New York City? A. In and around the eastern district.

The Court: Do you want to make any further examination of his qualifications?

Mr. Bohleber: No, your Honor.

Mr. Crews: I would like to bring out one thing further, your Honor.

The Court: You may.

By Mr. Crews:

Q. Did you work in the trade prior to taking this degree? A. I did, yes.

Q. And the degree was electrical engineering? A. That, is right.

Q. In connection with your profession do you do con-

sulting work for electrical contractors? A. I do.

Q. And what kind of work do you do for them? What does this consulting work consist of? A. Estimating—that is the preparation of cost sheets upon which contracts are solicited; the execution of the work, when the contractor gets it, and by execution I mean the preparation of the required materials, lists thereof, at least, and the ordering of those materials; the general supervision of the job while in course of construction, and the general supervision of the men while engaged in this construction.

Q. Do you prepare lists of materials and order the materials for the contractors? A. I do.

Q. In any of the jobs that you handle do you have occasion to order connectors, electrical connectors of the general type indicated in Exhibits 1, 2 and 17? A. Yes.

Q. How many connectors would you say that you have ordered in the course of your consulting work? A. Well, it is rather difficult to say. I should say it would be close to a million.

Q. Can you tell me when you first saw a connector of the particular type illustrated by Exhibits 1 and 2 as distinguished from a connector of the type illustrated by Exhibit 17? That is my question is—

The Court: Mr. Crews, let me suggest, since it appears from the evidence that Exhibit 17 represents an older type of connector, that you ask him

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when he first became familiar with connectors of that type.

- Q. Can you tell me when you first became familiar with connectors of the type of Exhibit 17? A. Back about the beginning of my days in the electrical industry, about 1910 and—
- Q. And can you tell me when you first saw a connector of the type of Exhibits 1 and 2? A. Not until about two years ago, I would say. May I qualify that? I first became acquainted with these connectors through trade literature some time before that but had not actually seen them used on the job for—oh, only about in the last two years.
- Q. Had they been used before that time? A. I believe they have, but I cannot testify definitely that they have.
- Q. When you order connectors for a job do you order any particular type? A. No, we do not.
- Q. Have you ever ordered any particular type of connector? A. No. I have not.
- Q. You simply specify a connector— A. An approved connector.
 - Q. An approved connector? A. Yes.
- Q. And you take what you get? A. Yes, we do.
 - Q. Would it make any difference to you whether you got a connector of the type of Exhibits 1 and 2 or of the type of Exhibit 17? A. It would not, to me.
 - Q. Mr. Latzer, are you familiar with the requirement of the Code that the bushing be visible? A. I am.
 - Q. Is it necessary to install the bushing and connector in the manner of Plaintiffs' Exhibit 16 in order for the bushing to be visible? A. No, it is not.
 - Q. Would you consider the manner in which Exhibit 16 is assembled to be the preferred manner of assembling the parts there? A. No, I would not.

Q. I hand you some parts and will ask you if you will please assemble them.

The Court: Before you do that, let's have the box—the connecting box marked for identification, and have the cable marked for identification, so that he can explain it just as Mr. McMurtrie testified. The outlet box will be marked Exhibit G for identification.

(The outlet box was marked Defendants' Exhibit G for identification.)

The Court: The cable H.

(The cable marked Defendants' Exhibit H for identification.)

Mr. Crews: And the connector Exhibit I for identification.

The Court: Is this a different connector?

Mr. Crews: This is a new connector that he is going to assemble.

The Court: All right. The connector Exhibit I.—
(The connector was marked Defendants' Exhibit
I for identification.)

The Court: Now are you using a bushing which is similar to E or F?

Mr. Crews: Yes, sir; the bushings are the same.

The Court: Well, which?

Mr. Crews: Oh, no, no; not E and F; the bushing is the same as in Exhibit 16.

The Court: 16: That is, you are using a bushing similar to Exhibit 15?

Mr. Crews: That is right.

The Court: All right.

Q. Will you please assemble those, Mr. Latzer?

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The Court: The witness is taking Exhibit G.

A. I take the connector and-

The Court: Inserts the connector.

A. (Continuing.) —and place the lock-nut on the inside of the box.

The Court: And places it into the opening from the outside and then attaches on the inside of the connector the lock-nut, then he inserts in the connector the armored cable, then over the armored cable on the inside—

Mr. Crews: Over the wires, your Honor.

The Court: That is over the wires in the armored cable, on the inside of the outlet box, he places a bushing similar to Exhibit 15, then with a screwdriver tightens the set-screw on the outside of the outlet box.

A. (Continuing.) Forcing the insulating bushing into place.

The Court: And forces the insulating bushing into place. Now counsel offers in evidence the box as a completed operation, as Exhibit J, and hands it to the Court.

(The completed assembly was thereupon received in evidence as Defendants' Exhibit J.)

Q. Now will you please point out-

The Court: The Court hands it for examination by counsel.

Q. Will you please point out the difference between Exhibit J and Exhibit 16? A. The difference lies in the fact that the insulating bushing was inserted from the front of the connector and slips through the connector. and into the armor, while on Exhibit 16 the insulating bushing was placed in the cable, the cable then slipped into place and the insulating bushing rested on the inside of the connector rather than the outside.

The Court: Is the connector of the type indicated by Exhibits 1, 2 or 17?

The Witness: The connector is of the types 1

and 2.

The Court: Which? The Witness: Connector 1.

Q. Exhibit 1? A. Exhibit 1.

Q. Now, I notice that the outlet box of Exhibit 16 and Exhibit J are different. Which is the more usual type of outlet box? A. This one, Exhibit J.

> The Court: In your experience? The Witness: Yes, sir.

Q. In Exhibit J the bushing—the shoulder of the bush- 249 ing is outside the flanges of the connector or the flanges of the connector outside the fingers; is that right? A. That is right.

Q. Does that method of inserting the bushing in this combination satisfy the Code requirement? A. I believe it does.

Q. And if the bushing were installed in that manner with a connector of the type of Exhibit 17, would it be visible? A. It would.

Q. So that it would still satisfy the Code? A. It would.

Q. Why do you consider the method of assembling of

Exhibit J preferable to that of Exhibit 16? A. The function of the bushing in Defendants' Exhibit J has been not only to form an insulator between the conductors and the armor but has also formed an insulator between the conductors and the edge of the connector, the mouth of the connector.

Q. And that is not true of Exhibit 16? A. It is not.

Q. Is it any easier or less easy to use the bushing in Exhibit J than in Exhibit 16? A. It is easier.

Q. And if the connector were of the type shown in 251 Exhibit 17, would it be as easy to use the bushing as in Exhibit 16! A. Equally easy.

Q. I show you a copy of a patent which has been put in evidence as Defendants? Exhibit A. Will you please tell me whether in your opinion that would be a more desirable bushing for use in this combination, such as Exhibit J, than the bushing you did use? A. It would be more desirable.

Q: Why? A. Because the bushing of this Exhibit A has a bead which may rest against the inside of the connector, and it has in addition to that an extended lip on the box end, if I may call it, of the bushing, which extended lip will protrude beyond the end of the connector and will make the presence of the bushing within the connector very much more readily ascertainable than it would with the bushing installed in Exhibit 16.

Q. In other words, the bushing would be visible even though some workman made the installation as of Exhibit 16? A. It would.

Q. And it would also protect the cable even though the workman made an installation in that way? A. It would.

The Court: Would you say that a bushing of the type manufactured under the patent Exhibit A

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that you just looked at could be used in the operation such as shown by Exhibit 16?

The Witness: Yes, it could.

- Q. I show you a patent which has been put in evidence as Defendants' Exhibit B. Will you please tell whether in your opinion the bushing shown in that patent is a more desirable one than the type of bushing which have been used in Exhibits 16 and J? A. It is more desirable.
- Q. And why? A. For the reason I advanced in my statement just before this on the bushing shown in Exhibit A, and the further and additional reason that this bushing has not only an extended lip but this extended lip is beaded so as to form a rounded surface against which the wires may rest, a feature which the Exhibit A bushing does not possess.

Q. Are the bushings of both Exhibits A and B adapted for use with connectors of the type of Exhibits 1 and 2! A. They are.

- Q. I show you a patent which has been marked for identification Defendants' Exhibit C. Will you please tell me whether or not in your opinion that is a more desirable bushing to use in this combination we have discussed than the bushing that was used in this Exhibit 16 and Exhibit J? A. Yes, I would say it is more desirable.
- Q. Why? A. Because this bushing possesses a flared lip and a deep groove, which permits the bushing to be inserted in the lip of the connector and the groove to set tightly against the inside circumference of the lip so that the bushing is securely held in place.

(The exhibit which had been marked for identification as Exhibit C, was thereupon offered and received in evidence as Defendants' Exhibit C.)

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Q. If the assembly of Exhibit J is properly made, is there any danger that that bushing will fall out after the assembly is completed and the job done? A. No, there is not.

The Court: Would it be affected by vibration? The Witness: If your Honor will permit me to qualify the answer, I cannot conceive of any building where this combination is likely to be used where sufficient vibration would be present to throw that bushing out of place.

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- Q. I hand you an article and ask you if you will tell me what it is? A. It is a piece of armored cable, 2-conductor, evidently No. 14.
- Q. Does this particular piece of armored cable go by any particular name in the trade? A. Why, we know it as the Walker cable. I don't know whether it has any other name in the trade.
- Q. You recognize that as a piece of Walker cable? A Yes, I do.
- Q. And what is there about this Walker cable that distinguishes it from other types of cable? A. There are two features which appeal to us, if I may say that. The first, and possibly the most important, is the presence of this red fibre strip, which is an insulating medium, and the function of which is to take the place of these bushings that we have been discussing, both the bushing in Exhibit 16 and the bushing shown in the Exhibits A. B and C, I think it is. This strip may be wound around the rough edge of the armor in such a manner as to form an insulating medium. I will make a point to demonstrate that, I suppose (performing operation), and it is absolutely quite firmly embedded in there and remains very definitely an insulating medium. This slip can either

be torn off or preferably laid back against the armor in some such fashion (illustrating), and the connector is inserted therein and holds this strip in place.

There is a further advantage to this cable, it is a minor advantage, but it is an advantage in that there are marks—I would say there are indentations in the convolutions of this armor which form a sort of a guide to the workman in making his cut on the cable and make it somewhat easier to cut the cable and make the possibility of a deep cut into the insulation of the wire less remote than it is with the other types of cable.

Q. Now, if you were assembling the combination of cable, connector and bushing using this Walker cable

would you use a separate bushing? A. No.

Q. The fibre you have described itself acts as a bushing? A. Yes.

The Court: He said it took the place of it.

Q. Would this satisfy the Code? Yes, I am quite sure it would. It has been used.

Q. Is this Walker cable something that is in use to-day? A. Yes, it is.

The Court: How long has that been on the marbet, to your knowledge?

The Witness: I have not personally come in contact with it until about six months ago.

Q. Are the connectors of the types of Plaintiffs' Exhibits 1 and 2 adapted to be used with this type of cable? A. Yes.

(The cable which the witness had been describing was thereupon offered and received in evidence as Defendants' Exhibit K.)

Mr. Crews: Your Honor, that completes our case

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except for the consideration of the prior art. I don't know whether your Honor would prefer to have us bring that out through this witness or simply for the attorneys to discuss it.

The Court: I will be glad to discuss it with you. How long a time do you want, Mr. Fassett, to cross examine?

Mr. Fassett: Your Honor, it may be a little hard for me to tell, but certainly a half hour or more.

The Court: Then I will recess until ten-thirty tomorrow morning. In the meantime I will discuss in Chambers now with counsel the subject matter of the introduction of the prior art. I assume that that will be very largely documentary.

Mr. Crews: Yes, your Honor. My only question is whether your Honor would prefer to have it done through an expert or just leave it to counsel

The Court: We will discuss that and see.

Mr. Crews: If your Honor please, before we start this morning I should like to know whether the plaintiffs are satisfied with their inspection of our books and we may now consider their case definitely closed?

Mr. Bohleber: No, your Honor. We are preparing stipulations that I think will be agreeable to the defendants.

The Court: When will those stipulations be ready?

Mr. Bohleber: They will be here in 15 or 20 minutes, and I think we may agree upon them during the morning recess.

The Court: Very well.

Q. Mr. Latzer, are there any places in electrical installations where connectors are used without these fibre bushings? A. Yes, there are.

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Q. What places are those? A. They might be used in connection with a conduit raceway system. That is, when say conduit I have reference to what we know as flexble metallic conduit, not the rigid conduit. This type of onduit uses a connector of this type or can use a conector of this type where it is fastened into an outlet box of one type or another, and the method of installation of his conduit is such and the requirements for the installation, of this conduit are such that the conduit end tself must be clear of any rough edges. It is usually done by the insertion of a tool, a reamer, which smooths out the ends of the conduit, and this conduit end is then inerted into the connector and seated against the shoulder of the connector and the connector mouth acts as a bushng. In fact, the installation of an insulating bushing from the inside, that is inserting it into the conduit before his conduit is placed in the connector, is altogether impracticable because this bushing would present an obstruction to the raceway, and inasmuch as the conductors are inserted into this raceway or conduit after the conbuit is in place, it would be very difficult, if not imposible, to insert these wires with this insulating bushing n place. The insulating bushing may, however, be inerted in the mouth of the connector in the way I demontrated yesterday on the cable, after the conductors are n place. It is, however, not done because there is no enineering necessity and there is no requirement for it.

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Q. Will you please explain a little more definitely what you mean when you refer to a raceway and what you mean when you refer to a conduit? A. The two, to some extent, are synonymous. A raceway, in electrical terminology, is any hollow, I might say, means through which wires are drawn, conductors are drawn into place. Now, a conduit is one type of raceway. There are other types of raceways.

- Q. That is, if the pipe or cable is installed first and the conductors put in after the installation, that is a raceway? A. That is right.
- Q. What do you mean in the industry when you refer to Greenfield? A. Greenfield is a trade name for what is officially known as flexible metallic conduit.
- Q. That is flexible cable without the insulators in it!

 A. Without the conductors in it.

Q. Without the conductors in it? A. Yes,

- Q. If the conductors are in it, it is known in the in-269 dustry as BX, is that right? A. That is the popular name of flexible armored cable.
 - Q. And if it is just the cable without the conductors in it, it is known as Greenfield! A. Yes, if it is the conduct without connectors it is; if it is flexible or, as you call it a cable without conductors, it is known in the trade as Greenfield.
 - Q. Well, you spoke in your description just given to this type of connector, could be used in the way you have described. What type of connectors were you referring to? A. I was referring to what you call the peephole type of connector that was before me yesterday, I believe it was Exhibit 1 or Exhibit 2. It is not material whether it has peepholes or whether it hasn't peepholes.
 - Q. Are there any other places in electrical installations where connectors are used without these insulating bushings! A. Yes. We might use them in connection with the same type of Greenfield conduit to rigid conduit as a joint and continuation. In fact, a use in that way is very common.
 - Q. In the patent in suit the last paragraph of the specification states, "It will be understood that the specific form of the connector may be varied, and it will also be understood that while the invention is of particular advantage in the use of flexible metallic armored cables, it

may be used to advantage in the installation of electrical conduits of other forms." What are these other forms that are referred to?

Mr. Bohleber: If you know.

Q. (Continued.) In other words, what other forms-

The Court: Put it this way: Do you know of other forms.

Q. Do you know of other forms?

The Court: Referred to.

The Witness: Where this insulating bushing is used in connection with the connector?

Q. No; I am afraid you misunderstood my question.

The Court: Let the stenographer read the quotation from the last paragraph of the patent in suit, or you might show him the patent so that he can read it for himself and perhaps he will better understand it, the last paragraph.

(Patent handed to the witness.)

The Witness: Oh, you are looking at the claims? The Court: No, not the claims, the last paragraph.

The Witness: The wording of the paragraph I just read is somewhat ambiguous. The phraseology, "It may be used to advantage in the installation of electrical conduits of other forms."

The Court: Yes. Now, that is the point. Do you know of other instances to which it has been or may be used?

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The Witness: I do not.

Mr. Crews: That was not my question, your Honor. I was simply inquiring what other forms of electrical conduits there are other than the one expressly mentioned in the paragraph "Flexible Metallic Armored Cables."

The Witness: If I may take exception to classifying as a conduit an armored cable, it is not a conduit, in my opinion, I would say that the only other conduits used in the industry where it might be used at all, is the flexible metallic conduit, as I notice, but it is not used in that connection, in that situation, to any extent.

Q. Now, Mr. Latzer, I am afraid you are trying to anticipate my question instead of answering the question I asked. My question is simply what are the types of conduit or cable that are used in the industry, if you know. A: The flexible—

The Court: That is not your question.

Mr. Crews: Well, that is what I intended.

The Court: No. You were asking him with specific reference to the language of the last paragraph which you quoted, in which the patentee states, referring to his connector, "It may be used to advantage in the installation of electrical conduits of other forms," and in order to make it more specific the Court asked the witness if he knew of other forms in which, as the patentee claims, it may be used to advantage.

Mr. Crews: Well, what I want to get at, your Honor, is the question of what forms there are, so that we can determine what meaning the patent has.

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The Court: That is another matter. You may ask him what other forms there are besides the forms that have been produced here.

Mr. Crews: Well, may I withdraw my question, then?

The Court: Yes.

- Q. Will you please tell us, Mr. Latzer, what forms of electrical conduit or cable, different than Greenfield, there are in use in the industry? A. The Laxible metallic conduit, the rigid iron conduit, both the thin wall type and what we know as the standard conduit; the non-metallic conduit, metal mouldings, underfloor raceways, which are also a metal form of raceway not circular in shape. I think those represent about all the conduit forms that are generally used.
- Q. And what are the principal forms of enclosures for wires that are in general use? A. The rigid iron conduit, I think both thin wall and the standard heavyweight type, is possibly used as a raceway in 90 or maybe a greater proportion of the cases.

Q. 90 per cent., you mean? A. Yes, 90 per cent. of the proportion.

Q. And what percentage is the flexible metallic cable used? A. Very small. Its application is limited to special conditions. I would say that possibly 1 per cent. of the conduit raceways used in the industry might be represented by the use of flexible armored conduit.

Q. And when you speak of a rigid tubing, are you speaking of what a layman would look at and call a pipe? A. Yes, exactly.

Cross Examination:

Q Mr. Latzer, I believe you testified yesterday, did you not, that you had something to do with the con-

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struction of buildings in which cable connectors were used? A. That is right.

Q. Will you state generally what your duties were in connection with such building construction? A. They ranged from—

Q. Just state specifically. A. The design of the electrical system, the estimating of quantities of materials required for the installation of the electrical work; ordering all materials for such installations; the supervision of the work actually installed, and general engineering supervision of the project until its completion.

Q. When you worked at estimating, in taking off costs, and so forth, did you work from blueprints and specifications? A. Yes.

Q. In the specifications, how were connectors of the type we have been talking of here specified? A. Speaking generally?

Q. Speaking generally, if you please, about those buildings you know of. A. You are asking me to outline something that goes over a period of 20 years or more under widely varying conditions. I cannot be any more specific than to give you the best of my knowledge and recollection of the majority of cases.

The Court: Let him state generally what conditions have been and then let him state with respect to the specific instances.

Q. You may do so. A. Generally connectors are not specified by any except the clause which I might typily by stating as an approved connector.

Q. That is all right. In connection with the construction of how many buildings have you performed such duties? You may state approximately, if you choose. A I would say a thousand would be conservative.

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O. Can you name a few of them for us? A. Yes, surely. I have in mind two large apartment houses in the City of Yonkers, one on Carroll Avenue and one on Saratoga Avenue. The exact addresses, of course, I cannot give you. A large apartment house on 57th Street and 56th Street, between Fifth and Sixth Avenues, I believe the number is 54 West-I am not quite sure-54 West 57th Street.

> The Court: How long ago was that? The Witness: About four years ago.

The Court: How long ago did you have your connection with those two apartment houses in Yonkers?

The Witness: In Yonkers about 10 years ago. I am taking them at random, your Honor. Several apartment houses, one on 75th Street between Central Park West and Amsterdam Avenue.

The Court: When was that?

The Witness: This was about 1922,

The Court: That is 15 years ago?

The Witness: Yes, sir.

Q. About how much time would you spend on the work 285 of each one, just average, of those buildings? A. It depends on the size of the building.

The Court: That would depend on the size of the · building.

Q. Correct. I am just thinking of an average when you consider the thousand buildings.

The Court: Well, let's take these buildings he has mentioned. Take these two apartment houses in Yonkers, for example.

Mr. Fassett: Very well, your Honor.

The Court: How much time did you spend on the examination of the plans and specifications and in doing the work which it was your duty to do in connection with the construction of those buildings, each of those buildings?

The Witness: I would say that the total time spent on those two buildings—they happened to be constructed more or less after closely connected times—must have averaged in actual days working time, approximately two months.

Q. Two months of your time? A. Of my time, yes.

By the Court:

Q. Now, take the building—was it at 56th Street? A. 57th Street, yes.

Q. 57th Street. How long did that take you? A. I think six or eight weeks would represent the time.

Q. Take the apartment house that you referred to in the 70s. A. 75th Street; that was a small project. I would say there not more than two weeks.

Q. What have you done in the past year? A. The past year my work has been confined very largely, about 80 per cent. of my time, to design work, designing electrical installations.

Q. And did that include installations? A. No, your Honor, that was purely design. It did include some supervision.

Q. As I recall, you testified yesterday, Mr. Latzer, that perhaps you had ordered or handled about a million of these connectors. A. Yes.

Q. Can you tell me approximately what portion of those you have handled and had anything to do with, you have

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handled since about 1930? I believe, if I recall, your experience with connectors began in 1910. A. Thereabouts, yes, sir.

Q. And I wondered what portion you think you have handled since 1930? A. Possibly 15 per cent.

Q. Probably 15 per cent. of them? A. Yes, sir.

Q. Mr. Latzer, I show you Defendants' Exhibit J, which you assembled yesterday afternoon during the direct examination, and ask you whether or not in assembling this device by the tightening of the set-screw of the connector it forced the bushing into place? A. No, it did not.

Q. It did not? A. No.

The Court: But you forced it into place in connection with the manual operation of tightening the set-screw?

The Witness: No. The insertion of the insulating bushing had no connection with the manipulation of the set-screw.

The Court: No, but what I meant was that did you do both simultaneously?

The Witness: No. I tightened the set-screw first and put the bushing in subsequently.

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Q. Do you know whether a connector organization like that you constructed to make Exhibit J has ever been approved by the New York Board of Fire Underwriters? A. I must answer that by saying that I have—

Q. The question is do you know whether it has been approved by the New York Board of Fire Underwriters? A. By inference only.

Q. Do you know whether it has been approved? The answer I think could be yes or no. A. The answer is yes.

Q. When was it so approved? A. I don't know.

Q. How do you know it has been approved? A. By

virtue of the fact that bushings inserted in this manner have occurred on jobs for which certificates of approval have been issued by the New York Board of Fire Underwriters.

- Q. Can you give us the name of one such job, and also the address of it, that you know of? A. Yes, this job in 57th Street—56th and 57th Streets.
- Q. What address is that? A. 56 West or 54 West, I am not quite sure, 57th Street or—I have that wrong. I gave that address wrong. The building is on 57th Street and 58th Street, not 57th and 56th, and the address, as well as I can recollect, is 54 West 57th and 53 or 55 West 58th Street.
- Q. What is the name of the contractor that erected that building? A. The Unit Engineering Company.

Q. The Unit Engineering Company? A. Yes.

- Q. At what time was it erected about? A. 1933, I believe.
- Q. What is the name of the building? A. It is an apartment house; it has no name.
- Q. Who is the present owner, do you know? A. I don't know.
- Q. Who was the owner at the time the building was erected? A. I don't know that, either.
- Q. By whom was it erected? A. The building was in alteration it was an existing building. It was an alteration.
- Q. Oh, it wasn't a new building? A. No, it wasn't a new building.
- Q. There was merely some new electrical work put into it? A. The entire electrical system was new.
- Q. And you supervised the installation of the entire electrical system? A. I did.
- Q. And did you tell us that the entire electrical system of that building is constructed in accordance with Ex-

hibit J, which you constructed for the Court yesterday? A. No, I did not say that.

The Court: What was the name of that company? The Witness: The Unit Engineering Company.

- Q. Will you tell me how much of the electrical construction in this building was of the type of the organization which you constructed yesterday for making Defendants' Exhibit J? A. I don't know.
- Q. You don't know how much of it was made that way? A. No, I do not.
- Q. You know that all was not made that way, is that true? A. That is true.
 - Q. Only some of it was that way? A. That is right.
- Q. How many rooms do you suppose there are in this building?

The Court: Which building?

Mr. Fassett: In the building about the construction of which we have just been discussing.

The Court: I wanted to make sure you didn't mean the courthouse.

Mr. Fassett: Thank you, your Honor.

A. There are two buildings involved, and I would say that there are about 300 rooms in each building.

The Court: In each building?
The Witness: In each building; yes, sir.

Q. Can you tell me specifically any portion of either of those two buildings in which we may today be apt to find this type of construction that is shown in Defendants' Exhibit J? A. I am afraid I cannot.

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Q. Well, where was that type of construction used when the work was initially put in and about which you have testified you are familiar? A. In various parts of the building. I would inspect it as I would go about from place to place and find one inserted like that.

Q. You found some inserted like that? A. Yes.

Q. And some otherwise? A. I am not prepared to say that they were inserted otherwise, because I could not tell whether they were inserted at all.

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The Court: Well, were all of the outlet boxes that you saw in either of those buildings of the type shown by Exhibit G?

Mr. Crews: J.

The Court: No, G is the outlet box. Did you see any which were similar to the outlet box in Exhibit 16?

The Witness: None whatsoever, your Honor.

Q. Mr. Latzer, will you please examine Exhibit J and tell me, if you can, whether the inner end of the bushing is inserted between the conductors and the inside wall of the armored cable? A. It is.

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Q. How can you tell that the red bushing in Exhibit J is inserted between the conductors and the inside surface of the armored cable? A. The end of the armored cable is resting against the inside shoulder of the connector, tight against it. I so inserted it, and it has to be in that position. The bushing itself is—the insulating bushing is approximally 58ths of an inchefrom the bottom of the shoulder to—

The Court: The witness performs the operation.

A. (Continuing.) —to the end of the bushing. The edge of the armor must come within 1/8 of an inch or

thereabouts from the mouth of the connector. In other words; there must be a space of at least 3s of an inch of the length of the insulating bushing which projects beyond the inner face of the shoulder of the connector.

Now, this 3's of an inch must go inside of the armor, that is between the armor and the conductors; because the circumference of the armor is such as to make it physically impossible to insert this insulating bushing through the mouth of the connector and not go inside of the armor.

Q. You can't see that it is inserted, can you? A. I can 302 not; no. sir.

Q. And if the Exhibit J had not been assembled by you but had been assembled by another and presented to you for inspection, could you then have known that the bushing, if it has been inserted as you did, was inserted between the conductors and the inside of the armored cable?

The Court: No; if inserted as he did, he would have to say yes to that. You want to find out whether he could tell, if somebody else claimed to have inserted it, whether it was inserted between the armor and the conduit.

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Mr. Fassett: If, your Honor please; by that I meant he had put this bushing on the outside of the fingers rather than on the inside. That is what I meant by the way in which he had inserted it.

The Witness: Read the question.

Q. (Read by the stenographer.) A. I could not be absolutely certain.

Q. If you wanted to be absolutely certain, and an orcanization such as Defendants' Exhibit J had been presented to you and that organization had been assembled by another, could it be taken apart and enable you to ascertain whether, before taking it apart, the bushing extended between the conductors and the inside of the armored cable? A. Yes, certainly.

- Q. Can you take that organization apart without removing the red bushing from its insertion, assuming it has been so inserted between the conductors and the inside of the armored cable? A. No, I could not.
- Q. So the truth is if you doubted whether that bushing was, in fact, inserted between the conductors and the inside surface of the armored cable, it is such an organization that you could not take apart to decide whether it would properly assemble, isn't that true? A. That is true.
- Q. Are you familiar with the requirements of the Code of the Board of Fire Underwriters? A. Yes.
- Q. Then you know that it is necessary to have a bushing or its equivalent approved protection to be provided between the conductors and the armor? You know that that is specifically the requirement? A. I know that
- Q. And so that no one examining an assembly like Exhibit J, which was presented to them, could tell whether or not it complies with the Code; is that true? A. That is true.
- Q. Will you explain to the Court how you could know that these organizations in the buildings you have talked about were inserted in conformance with the Code! A From personal observation of how they were actually put in.
- Q. If I recall correctly, Mr. Latzer, during your testimony yesterday you said that the bushing, Exhibit E. having what you described as a bead, could be inserted in the organization, Defendants' Exhibit J. instead of the bushing you used; and I believe in connection with that you said that when so inserted the bead would be behind the fingers or flange of the connector. Will you explain

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to the Court how that could be done? A. May I take this apart and show the Court? It will be necessary to remove this tag.

Q. Certainly.

Mr. Fassett: The witness says it will be necessary to remove the tag from Exhibit E in order to make the assembly. Let the record show that the witness has completely dismantled Exhibit J and has removed the conduit from the fitting and has inserted the bushing Exhibit E between the conductors and the inside surface of the armored cable. You may proceed.

(Witness submits assembly for examination.)

Q. Is the lock nut tightened? A. As well as I can without a tool.

Q. Without a tool? A. Yes.

Q. Will you show it to the Court, please? A. (Witness hands assembly to Court.)

Q. Now, if I recall your testimony of yesterday correctly, you said that the bushing Exhibit E could be inserted into Exhibit J in the same manner in which you inserted the red bushing yesterday, which corresponds to Plaintiffs Exhibit 15. A. Yes, sir.

Q. So, having watched you reassemble this device, you were apparently mistaken, because you had to assemble it differently, did you not? A. No, I did not.

Q. Yesterday when you assembled Exhibit J you put the bushing in last, didn't you? A. That is right.

Q. This morning when you reassembled it you put the bushing in first, did you not? A. I did.

Q. So then if was not correct yesterday when you said that Exhibit E could be used like Exhibit 15, was it? A. Yes, it was.

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The Court: Well, suppose you take it out and put the bushing in last.

Q. Put the bushing, Exhibit E, in last as it now is assembled when you put it in first, but before doing that, let me ask you a few further questions. Open it up first. We will come to that in a moment. In Exhibit J as you have now assembled it—

The Court: Reassembled it.
Mr. Fassett; Reassembled it; thank you.

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- Q. We note that the bushing E is between the inside surface of the armored cable and the conductors, don't we? A. We do.
- Q. Because we put it in there first and saw it go in there, didn't we? A. That is right.
 - Q. And then we-

The Court: You better refer the pronoun to him, because you and I have nothing to do with it.

Mr. Fassett: All right, your Honor ..

The Court: We are not "we," This is not a Lindbergh case.

Mr. Fassett: All right, your Honor.

- Q. Bushings like the type Exhibit E, assembled as you have this one now, I refer to Exhibit J reassembled, can be seen after they are in place tightly, can they not? A. They can.
 - Q. How can they be seen? A. By virtue of the fact that the collar of the insulating bushing, the collar which protrudes beyond the bead of the bushing, is a substantial distance, over 1/8 of an inch outside of the line of the mouth of the connector.

Q. Yes. That would be true if bushings of the type of Exhibit 17 were used, would it not?

The Court: What is that?

Mr. Fassett: That would also be true if connectors of the type of Exhibit 17 were used.

A. The answer is yes.

Q. The only thing you would have to do with a connector of this type, Exhibit 17, would be to make a hole large enough in order to have the bushing extend through it, would it not? A. You are referring to the mouth of the connector?

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- Q. That is correct. A. That is right.
- Q. Now we turn to the question of a moment ago. I asked you to reassemble Exhibit J just as it was before you dismantled it.

The Court: He takes the cable out of the outlet box. Now he takes a bushing out of the cable and now he puts the cable into the—

Mr. Fassett (Interrupting): Connected without a bushing in it.

The Court: Then inserts the bushing and fastens the set-screw on the outside.

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Q. Is that lock-nut tightened now? A. The lock-nut is tight.

.The Court: Then he inserts the bushing, Exhibit E (15).

(Witness submits assembly to the Court.)

The Court: Lam turning this around. It is not securely locked. I am turning it around so that I can see all sides of it.

Mr. Fassett: That is all right, your Honor. The Court: All right.

•Q. Now, will you remove the bushing from Exhibit J, and before loosening the lock-nut disconnecting the connector from the box or loosening the set-screw, place Exhibit E in the mouth.

The Court: Exhibit E?

Mr. Fassett: Exhibit E, which is a different busning.

The Court: What did you use before? 15!

Mr. Fassett: That was Exhibit 15.

The Court: Then I improperly described it because I said he inserted E. It should have been 15. That was an error. The witness has now inserted Exhibit E.

- Q. As Exhibit E is inserted, the bead on that exhibit is forward of the front edge of the finger, is it not! A It is.
- Q. So that the bead is not behind the fingers, as you testified yesterday it would be? A. The bead is not behind the fingers.
- Q. So then I guess we must conclude that Exhibit E cannot be used in Exhibit J in place of bushing 15, which was used when it was originally assembled. That is correct, is it not? A. It is not.

Mr. Fassett: Please read the question. (Question read by stenographer.)

- Q. Well, I guess it is true that it cannot be so used and get the bead behind the fingers? A. No, that is not true either.
 - Q. Well then, will you take-

The Court: Can you put it in so that the bead will be behind the fingers?

Mr. Fassett: Correct.

. The Witness: The particular bushing here may be too long to be inserted.

Q. Don't touch the set-screw; just put it in. A. Well, his Honor asked me to put it in. I want to demonstrate that the bushing may be too long to be forced in.

The Court: Let's see if you can put it in without touching the set-screw and get it—

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Q. Get the bead behind the fingers.

The Court: And get the bead behind the fingers.

- Q. If you use a screwdriver will you mutilate the bushing? A. You may.
 - Q. Have you now mutilated the bushing? A. I did.
 - Q. You have crushed the bead? A. I did.
- Q. You have damaged it beyond recognition in its previous form, is that correct? A. That is correct.

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The Court: Did you use the screwdriver to-

. Q. And the screwdriver before was used to tighten screws with and not to press the bushing in, was it not?

The Court: No, he used the screwdriver to take a bushing out.

- Q. That use of the screwdriver to take the bushing out was used in connection with Exhibit 15, was it not? A. 'Yes, sir.
- Q. But that use of the screwdriver did not mutilate Exhibit 15, did it? A. It did not.

Q. The use of the screwdriver here has mutilated Exhibit E, has it not? A. It has.

The Court: Is that the end of the demonstration? Haven't you got another Exhibit E that is not mutilated?

Mr. Crews: I handed Mr. Fassett one this morning.

Mr. Fassett: We do not have one like Exhibit E. We do not have another bushing like that.

Mr. Crews: Here is another one, your Honor.

The Court: Is that conceded to be the same?

Mr. Fassett: (Examining bushing.) We think it is substantially the same, your Honor. It is made of fibre of a different color. The other was red fibre; this is black fibre.

The Court: All right.

Mr. Fassett: So we will ask the clerk to tie the tag of Exhibit E on the black fibre.

The Court: Let him use it first and then you may put the tag on afterward.

Mr. Fassett: I thought we finished with that, your Honor.

The Court: No, he is going to put that in. You have asked him to put it in, and then you interrupted the operation by examining him with regard to the use of the screwdriver.

- Q. Will you remove Exhibit E, the red fibre, from the assembly. You can use the screwdriver if necessary. A I did have to use it.
 - Q. Now, I will ask you if you can answer-

The Court: Now, without loosening either the set-screw or the lock-nut--

Q. Or without mutilating the bushing, see if you can insert the new Exhibit E? A. No, I can not.

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Q. You cannot because of the bead, isn't that true? A. No, sir, I cannot, because I believe the bushing or the shank of the bushing is too long to be inserted under the armor.

Q. How long is the shank of the black bushing?

The Court: Well, how does it compare with Exhibit E?

Q. Correct; measure them. Hold them up side by side.

Q Exactly the same. So it is no longer than the old

Exhibit E, is it? A: No.

Q. Now, will you please insert the new Exhibit E?

The Court: No, not the new Exhibit E; just say the black counterpart of Exhibit E.

A. Insert it from the outside?

Q. Insert it from the outside without mutilating it. A. (Witness complies.)

Q. The bead as you have now inserted it is forward

of the fingers, is if not? A. It is.

Q. Can you insert it so that the bead will be rearwardly of the fingers, without mutilating it? A. Not unless I take the assembly out.

Q. Now, will you kindly reassemble-

The Court: Why not? Why can't you do it without taking the assembly out?

The Witness: I believe the bushing, the length of the bushing, prohibits it from going behind the armor sufficient to be able to put that bead under the ridge.

Q. You put the other one in when you assembled it properly though, didn't you? A. Which one?

Q. Exhibit E.

The Court: When you put it in before. The Witness: Yes:

Q. So there is no-

The Court: Rather than after inserting the armored cable through the connector. Do you understand my question?

The Witness: Yes, I understand that question, your Honor. Yes, I did put it in.

Q. So there is no question about there being room enough for it, if you could get it in there? A. There might still be a question.

The Court: What is that?

The Witness: There might still be a question.

The Court: What is that?

The Witness: There might still be a question.

- Q. Well, all right, disassemble that device and put the bushing in and let's see if there is room enough for it!

 A. Yes (performing operation), there is room enough for it.
- Q. Now, will you please assemble Exhibit J as it was when I handed it to you, and also return the tag to Exhibit E? A. (Witness complies.) You say Exhibit 17 you want me to assemble?
 - Q. Assemble Exhibit J just as it was when I first handed it to you.

The Court: Well, Exhibit 15 is being inserted now.

Mr. Fassett: Correct, your Honor.

- Q. Now, will you please tie the tag back on Exhibit J!

 A. (Witness complies.)
- Q. Now, will you tie the tag back on Exhibit E! 1. Which one?

Q. The red bushing.

The Court: Put the two of them on the same tag.

Q. Put the two of them on that same tag, inasmuch as they have been interchangeably referred to as Exhibit E. They are just the same except for the color of the material from which they are made.

Mr. Crews: And they are both put in evidence as Exhibit E?

Mr. Fassett: Yes.

The Court: Exhibits E-1 and E-2, if you please; the red as Exhibit E-1 and the black one be referred to as Exhibit E-2.

The Witness: I am afraid they won't stay on. They have been spread, and they won't stay.

The Court: The clerk will take care of that.

Q. Mr. Latzer, do you know whether or not the Walker cable has ever been approved for use in New York City by the New York Board of Fire Underwriters? A. I don't know.

The Court; Well, is it used in buildings?

The Witness: Yes, sir.

The Court: And do you know of your own knowledge whether certificates have been issued upon the completion of the buildings or the completion of the alterations of the buildings wherein Walker cable has been used?

The Witness: No, I do not, your Honor.

Q. If you used Walker cable in connection with the connectors in which we have been interested here, you would

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have to have a peep-hole connector, would you not, to determine whether the tape had been wound about the conductors properly? A. No, I don't believe so.

Q. Where is that piece of Walker cable we had yester-day? (Cable produced.) The Walker cable is Exhibit K. How could you tell, without a peep-hole connector, whether or not the tape provided, as I understand, for the puppose of wrapping about the conductors, and being tucked in between the conductors and the inside surface of the armored cable, as you testified yesterday, how could you tell whether that tape had been so tucked in without a peep-hole connector, without dissembling the device to find out? A. Yes. The fibre tape projects beyond or should project beyond the mouth of the connector.

Q. Then, the tape of the Walker cable would be seen!
A. Yes.

Q. That would be the only way? A. Yes.

Q. I believe this morning you testified about connectors of the type we have here, used in connection with raceways? A. Yes.

Q. Mr. Latzer, what do you mean by raceways? A. A raceway is a hollow form or enclosure through which conductors are drawn or they may be inserted.

in Q. Cable of the Walker type has the conductors and jacket made as a unit and sold by the foot, does it not!

A. That is right.

Q. That is not such a raceway? A. It is not a raceway.

· Q. And the other cable similar to that on Exhibit J is also made with the sheathing? A. Yes, sir.

Q. And the conductors together? A. Yes, sir.

Q. And the cables attached to Exhibit 16 are similarly made, are they not? A. They are.

Q. In none of these exhibits are the wires drawn through the conduit afterward? A. No, sir, they are not

The Court: You would not call any of these cables, then, raceways?

. The Witness: We do not refer to them as such, your Honor.

- Q. You mentioned something about the Greenfield not being a conduit, I believe? A. No.
- .Q. Or something? A. I said the Greenfield is a conduit.
 - Q. Greenfield is a conduit? A. Yes.
- Q. Greenfield is such a raceway, is it? A. That is right.
- Q. Do you know how Greenfield-raceways, if you will, or conduits, are prepared in practice before they are inserted into a connector as we have here? A. They cut—they are cut square with a hacksaw and they are reamed, the inside of a Greenfield is reamed of any rough burrs that may be present due to the cutting operation.
- Q. Yes, and where they prepare solid type or rigid conduits such as you have testified to, they usually ream the mouths of those, don't they? A. They must.
 - Q. They must do that? A. They must do that.
- Q. Now, of course, in using cables as we have here, you cannot ream them out, can you? A. No, you cannot.
- Q. And so it makes it necessary to have some protection for the burr which is occasioned by cutting the armor off a portion of the wires, doesn't it? A. That is right.
- Q. Do you know of any other expedient in connection with the use of the Greenfield conduit for preparing the end of that conduit for use? In connection with that I call your attention to the patent No. 640.758, issued January 9, 1900, to E. T. Greenfield. A. Just what is the question?
- Q. (Question read.) A. I don't quite tie up this patent with your question.

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Q. Well, I will call your attention to Figure 1, in which a bushing C is shown, and at line 63 of the specification it says:

> "My present improvement is designed to overcome this objectionable feature, and to this end I form an expansible metallic bushing C."

I will ask you if that bushing C is not designed to go into the end of that conduit and finish the end of it? A. It evidently is so designed.

(The Greenfield patent referred to by the witness was thereupon offered and received in evidence as Plaintiffs' Exhibit 31.)

Re-direct Examination:

Q. Mr. Latzer, in this assembly of Exhibit J. could you know whether or not the bushing were inside the cable. if you knew before that bushing were put in the shape and size of the bushing? A. Not with absolute certainty.

Q. Why not? A. If the cable is incorrectly inserted-342 poor workmanship or any other reason, but incorrectlythat is, if it is not seated against the inside shoulder, of the connector, there is a possibility that the insulating bushing inserted from the front may not seat inside of the armor.

Q. If the connector and cable were properly assembled. then you would know? A. Absolutely.

Q. Why did the bushing of Exhibit E not go down with the ring underneath the fingers when you tried to assemble it? A. The ring evidently—the bead evidently was larger than the opening of the connector. It is possible that under proper circumstances with somebody skilled in using the bushing it might have been so inserted.

Q. It was simply a matter of the size of that particular bushing and the size of that particular connector? A. That is right.

Q. As long as an assembly such as Exhibit J, but using one of the bushings of Exhibit E, is properly made, does it make any difference whether the bushing is put in first or last? A. Not in my opinion.

Q. That is, once the job is completed the assembly is there? A. That is right.

Q. And the assembly is the same no matter what the order in which the job is done?

Mr. Bohleber: I object to such line of question as grossly leading.

The Court: Yes, sustained.

- Q. I hand you a book and ask you what it is, if you know? A. I recognize it as the list of approved fittings issued by the Underwriters Laboratories, Inc., as of May, 1937.
- Q. What Underwriters' Laboratories is this? A. It is the Laboratories of the National Board of Fire Underwriters.

Q. Then, does that mean that those are fittings that are approved by this National body? A. That is correct.

Q. And can you tell me by referring to this book whether or not-

The Court: Let's mark that for identification.

(The book was thereupon marked for identification as Defendants' Exhibit L.)

Q. And can you tell me by referring to this book whether or not the Walker cable, which is Exhibit K, is approved by this body! A. Yes.

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Q. Will you please read what you find in there with regard to it? A. On page 9, under the heading of "Armored Cable and Cord," in the column 2 at page 9, there appears the following:

> Walker Bros., Conshohocken, Pennsylvania. Marking letter Y stamped in armor at frequent intervals. Impressions in armor at frequent intervals and red tape under armor."

That corresponds to the sample that you had me ex-347 amine, which appears as Exhibit K, I believe.

Q. And is this approval of this body an approval for the entire United States? A. It is so far as I know. There may be exceptions. I don't know of any.

Q. You mean there may be local code rules or local bodies that would not approve it, but this approval goes for the entire United States? A. There may be, yes.

Q. Mr. Latzer, can you tell me whether the method of operation as shown in Exhibit 31 is the method that is in use today? A. No, it is not. The use of a bushing as shown in this patent does not appear to be necessary. I know it is not so used in the trade generally, because of the fact, as I have testified before, the inside edge of this conduit is reamed out and the presence of a bushing on the inside would serve as a deterrent and make it difficult to pull wires through this conduit if it is in place.

> The Court: So that would you say that the conduit shown on this patent is a raceway? The Witness: Yes, sir.

Q. Why do you prefer to insert the bushings from the inside of the box after the connector is in place, as you did in connection with Exhibit J? A. Practical considera-

tions have led me to that preference. These outlets of this type, in fact of any type in which armored cable is used, are located in a great majority of instances; I would. say in ninety per cent. of the cases, in locations where efficient inspection even with the best of intention is very difficult. I refer, for instance, to what we know as base receptacle outlets, that is, plugging outlets which are located twelve inches or so above the floor generally, of which a large number, a very large number are present in every operation. I refer also to the location of outlet boxes on the ceiling, and they may be anywhere from eight feet or more above the floor. And there are, of course, in every box a large number of wires present, maybe as high as twelve, maybe more, and the combination of conditions, that is, the comparative inaccessibility of those outlets to even a conscientious inspection, practically makes it impossible to see the bushing through these peepholes, and this bushing is on the inside of the connector. The bushing in that position, even with this peephole connector, is visible only from practically directly over it, and at best there is visible only a matter of one-sixteenth or one-eighth of an inch of this bushing, and when these outlet boxes are located in difficult positions, that is, where they cannot readily be seen, my experience has been that the tendency is to eliminate the bushing entirely, to insert it only in the places that the inspector is most likely to look, that is, switch outlets, for instance, which are about four feet in height, generally, where obviously the inspector will make an inspection. And I prefer to see the bushing, that is, to have the bushing on the outside, because then I know at least that there is a bushing there even though the bushing may not be entirely within the armor, or at least there is no assurance that the bushing has penetrated the

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armor, but the bushing is there and it is visible on most casual inspection in almost any kind of location.

- Q. Do you mean to imply that it would be likely that the bushing would not be within the armor? A. The bushing would be within the armor ordinarily, and I would say that in practically every case the bushing would be within the armor. I take it that you are referring to the instance in which the bushing is inserted from the mouth of the connector?
- Q. Yes. A. Yes; because the actual way of installing these in place is to seat the armor against the inside bead of the connector in order to make a solid and substantial job, and in order that the cable may not slip out from under the connector, so that with the armor seated against the bead of the—the shoulder, I would say, of the connector, it is absolutely certain that the insulating bushing is seated within the armor.

Re-cross Examination:

- Q. Mr. Latzer, who have you talked to about the testimony you have given here in this case today? A. Mr. Crews.
- 354 . Q. Who else? A. Nobody.
 - Q. I want you to think carefully, please, and name anyone else besides Mr. Crews with whom you have talked about the testimony you have given here in this court! A. Today?
 - Q. At any time. A. Well, your question was today.
 - Q. Well, I will make it now any time. A. To Mr. Joselson.
 - Q. Anyone else? A. Not to my recollection.

Mr. Bohleber: With reference to the Joselson Sales Corporation, it is stipulated as follows:

That the directors of this corporation since Feb.

ruary 10, 1933, were and are Samuel Joselson, Belle Joselson and Jack Joselson; that Jack Joselson is the brother of Samuel Joselson; that according to the minutes of the third meeting of the Board of Directors on March 23, 1935, the capital stock was increased from 50 to 250 shares or from \$5,000 to \$25,000; that on February 16, 1933, there were issued to Belle Joselson 10 shares of the capital stock of this corporation; that there were issued to Belle Joselson on December 15, 1933, an additional 30 shares of the capital stock of this corporation and on the same date there were issued to Samuel Joselson 10 shares of the capital stock of this corporation; that on April 2, 1935, there were issued to Belle Joselson 5 shares of the capital stock of this corporation and on the same date therewere issued to Samuel Joselson 70 shares of the capital stock of this corporation, thus making Belle Joselson's holdings 45 shares and Samuel Joselson's holdings 80 shares as of April 2, 1935.

The Court: That was half of the stock?

Mr. Bohleber: Yes, that is right.

The Court: 125 out of 250.

Mr. Bohleber: That is right. It is further stipulated that the minutes of this corporation further shows that at a fourth meeting of the directors thereof a resolution was adopted to wind up the affairs of this corporation not later than June 15, 1935, but that these minutes are undated and unsigned.

With reference to Electrical Fittings Corporation it is stipulated:

That the directors since shortly after the organization of this corporation were and are Samuel Joselson, Irving G. Trattler, and Edwin J. Schnei-

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der; that Samuel Joselson, President of the Joselson Sales Corporation, turned over his equity of about \$12,000 to the above Corporation in return for 50 shares of stock; that according to the stock book, the share holdings from the date of the first meeting of the directors of the Corporation on June 3, 1935, were as follows: Samuel Joselson 50 shares, Irving G. Trattler 25 shares, and Edwin J. Schneider 25 shares; that the minute book shows that meetings were held by the directors on December 16, 1935, November 10, 1936, March 15, 1937, and on May 15, 1937, and that at the fifth meeting on May 15, 1937, there was an additional distribution of capital stock as follows: Samuel Josélson 16 shares, Irving G. Trattler 8 shares, and Edwin J. Schneider 8 shares, thus making the stock holdings as of May 15, 1937, as follows: Samuel Joselson 66 shares, Irving G. Trattler 33 shares, and Edwin J. Schneider 33 years.

With reference to the Efcor Sales Corporation it is stipulated:

That the directors of this corporation from the date of the first meeting on February 15, 1937, and throughout the existence thereof were and are Irving G. Trattler, Edwin J. Schneider, and Samuel Joselson, and that the officers of the corporation were and are Irving G. Trattler, President & Secretary; Edwin J. Schneider, Vice-President; and Samuel Joselson, Treasurer; that the capital stock issued as of February 15, 1937, was as follows: Samuel Joselson 30 shares, Edwin J. Schneider 15 shares, Irving G. Trattler 15 shares; that there have been no meetings of this Corporation other than the first meeting on February 15, 1937.

Mr. Crews: Has the plaintiff now rested? Mr. Fassett: Yes, plaintiff rests.

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(There was thereupon offered and received in evidence a booklet of prior art patents including a copy of the patent in suit, Fullman, 1,769,947, Frederickson Patent 1,687,013, Geohst, et al., 681,416, Klein, 799,989, Freeman, 848,819, Hinsdill, 849,395, Gilbert, 949,628, Appleton, 1,192,150, Webster, 1,245,077, Casper, 1,279,256, and Perry, 1,585,688.)

(The defendants thereupon rested their case.)

PLAINTIFFS' REBUTTAL PROOFS.

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(There was thereupon offered and received an abstract of the file wrapper and contents of the application which eventuated into the patent in suit, James M. G. Fullman, No. 1,769,947, as Plaintiffs' Exhibit 32.)

Mr. Fassett: If your Honor please, we would like to have permission to substitute a certified copy of this file wrapper and contents, which we do not have here today.

The Court: I suppose there is no objection to that.

Mr. Crews: No objection to that, no, sir.

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JOSEPH G. FORSYTH, called as a witness on behalf of the plaintiff in rebuttal, being first duly sworn, testified to follows:

irect Examination:

Q. Mr. Forsyth, will you state your age, residence and coupation? A. Age, 76, residence 406 Jefferson Avenue, rooklyn, New York, consultant with the Electrical Buan of the New York Board of Fire Underwriters at the resent time.

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Q. How long have you been connected with that Electrical Bureau of Fire Underwriters? A. A little over 46 years.

Q. Is that sometimes called the New York Board of

Fire Underwriters? A. It is.

Q. What was the nature of your duties while employed by the New York Board of Fire Underwriters? A. For forty years I was in charge of the electrical inspection department of the New York Board of Fire Underwriters. Prior to that time I was an inspector for some years doing field work in the field. As chief inspector and supervising engineer of the Board, I looked after the details of the department, consulted with contractors, manufacturers, supply dealers and others interested in the electrical field, and tried the best I could to settle disputes and to give interpretations of the code and of the rulings of the inspectors and others.

Q. Did you say you were an inspector yourself at one time? A. Yes.

Q. How long were you an inspector? A. About four years.

Q. After the period of four years when you were an inspector, what did you do thereafter? A. I had general charge and supervision of the Electrical Department, looking after the men and their reports, and also made many inspections myself personally in the field.

Q. What men are you referring to? A. Our inspectors.

- 'Q. How many inspectors did you have under you at any one time? A. I had one time 91 outside inspectors.
- Q. What educational training have you had? A. Well, I graduated from the Ohio Normal University at Ada-Ohio. Took a year's course in Parsons' College, Fair-field, Iowa, and a course in higher mathematics at Johns Hopkins University.
 - Q. Mr. Forsyth, did you hear defendant's expert wit-

ness, Mr. Latzer, testify in connection with Defendants' Exhibit J? A. I did.

Q. I now show you that exhibit and call your attention to the following testimony given by him at page 112 of the record, The question was:

"Q. Does that method of inserting the bushing in this combination satisfy the Code requirement?" and the answer was: "I believe it does."

Now, what is your opinion as to whether or not that method satisfies the Code requirement? A. Technically, as inserted, it probably would comply, but it is not an approved method of assembly such as we would require.

Q. Why not? A. Because there is nothing in this except the spread of the conductors to prevent that bushing from shaking out or being withdrawn.

Q. Can you tell from an inspection of it whether those bushings were located between the conductors and the cable? A. As assembled here, it is apparent that this is inserted between the armor and the insulation, but inserting the bushings after the assembly of the box and cable, you could not in all cases be sure that the bushing is properly inserted so as to protect the conductors 369. from the sharp edges of the armor of the cable.

Q. Now, Mr. Forsyth, when he testified as follows:

"Q. And if the bushing were installed in that manner, with a connector of the type of Exhibit 17, would it be visible?" and the answer was: "It would." What is your opinion as to that?

The Court: Well, now, first of all, you better show that this witness knows what is referred to by Exhibit 17.

Mr. Bohleber: Oh, yes.

The Court: That is the old type connector,

Q. I now show you Plaintiffs' Exhibit 17 (han ling).

A. What was the manner of inserting this bushing?

Q. Well, now, you recall I asked you—my previous question was that Mr. Latzer had testified as follows:

"Does that method of inserting the bushing in this combination satisfy the Code requirement?" and he was there referring to this Exhibit J, and his answer was: "I believe it does," and then you testified about that, as to whether you thought that was right or not.

Now then my next question is: "And if the bushing were installed in that manner with a connector of the type of Exhibit 17, would it be visible?" and the answer was: "It would." What is your opinion about that? A. It would be visible, but it would not be a proper method of installation.

Q. Now, Mr. Latzer went on to testify as follows, still at page 113:

"Q. Why do you consider the method of assembling of Exhibit J. preferable to that of Exhibit 16?" and this is Plaintiffs' Exhibit 16, which I now show you. His answer was: "The function of the bushing in Defendants' Exhibit J has been not only to form an insulator between the conductors and the armor but has also formed an insulator between the conductors and the edge of the connector, the mouth of the connector."

Now what is your opinion as to the preferable assembly of Exhibit J as compared to Exhibit 16?

Mr. Crews: If your Honor please, I object to that. Mr. McMurtrie has already testified in agreement with Mr. Latzer on that point.

The Court: Overruled. Mr. Crews: Exception.

A. The method of assembly as shown in Exhibit 16 is the preferable way, and in fact is the required way at the present time.

- Q. Would you say—I will ask you again, would you say that Exhibit J would cass inspection of the Board of Fire Underwriters? A. It would not.
- Q. And why not? A. Because of the probability or possibility of the bushing, due to vibration or other causes, coming out of the end of the connector and thus doing away with the protection that is supposed to be afforded.
- Q. Do you know anything about the Advisory Board of Engineers of New York City? A. I happen to be a member of that board.
- Q. And what is that board? A. A board that was created a good many years ago having representatives on it from the Electrical Inspection Department of the Department of Water Supply, Gas and Electricity, representatives from the Electrical Bureau of the New York-Board of Fire Underwriters.
- Q. Mr. Latzer also testified at page 117 to the effect that he was quite sure that the Walker cable, Defendants' Exhibit K, would satisfy the code. Does it satisfy the code of the New York Board of Fire Underwriters? I now show you Defendants' Exhibit K. A. This cable was, as all such materials are, presented to the Advisory Board for consideration and action, and the result of such consideration by this Advisory Board did not indicate that this was a suitable material for use, due to several conditions.
- Q. What are those conditions? A. I beg your pardon? Q. What are those conditions? A. In the first place, it is a difficult matter, unless a man is trained, to properly protect the end of this connector by this strip of libre, and it is only a man after a good deal of experience, that can properly fold this over and perform the operation properly. And second, this insulation, even if not properly assembled, presents a sort of a bump or a bunch of insulating material on the end of the cable,

thus separating it and insulating it from the connector, which is a very undesirable thing.

Q. Will you please tell me what the advantage of a connector is which permits of ocular inspection to determine whether or not a bushing is used? And in that connection you may refer again to Plaintiffs' Exhibit No. 16. A. It provides a much easier and more ready view of the insulating bushing.

Q. You have seen, have you not, the National Electrical Code, Plaintiffs' Exhibit No. 18 for identification! A.

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The Court: Show it to him, why don't you? He may look at it so that he will know it is the same one with which he is familiar.

Q. At page 52 of this code appears Section 505-g of Article 5, which I now show you and ask you whether there was a similar requirement by the Board of Fire Underwriters of New York City prior to 1933! A. No, there was not.

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Q. Do you know what the situation is in New York City with respect to the use of connectors like Plaintiffs' Exhibit 17? A. Well, there are still many of them being used. I was surprised to find on looking over the records, that no orders had been ssued to require the spen end connector, but that is due to the fact that perhaps the change of administration when I went off the active list of the Board and my successor hasn't got through with the other administrative features. It is customary and always has been customary that where a change in design of a device is required by the Code, that we do not enforce the new, design for a long time, depending upon its importance and on whether or not we find that the industry is so loaded up with the old devices that it would be a hardship to rule them all out,

so that we admit the continuation of the use of the old type pending the distribution of the existing supplies from manufacturers and jobbers and contractors, but as yet the order for open type connectors has not yet gone cut.

The Court: You say it has not or you don't believe it has?

The Witness: No, it has not.

The Court: It has not?

The Witness: It has not.

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Q: To what extent is armored cable used in New York City? A. Well, in New York City perhaps its use is not as extensive in proportion as in outlying sections, as the Electrical Department of the New York Board of Fire Underwriters also has supervision over the electrical equipment in Suffolk and Nassau Counties of the Island; Westchester, Putnam and Rockland Counties up-State, and I should say that with the exception of the last four or five years the armored cable would constitute twice the footage of all of the other rigid or flexible conduits combined.

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- Q. What do you know about the extent of the use of the Greenfield cable in New York City? A. It is very limited.
- Q. I now show you Plaintiffs' Exhibits Nos. 1 and 2, and ask you, if you saw a customer who had a supply of connector's like Plaintiffs' Exhibit No. 2, where you would expect that they would be intended to be used and how?

Mr. Crews: I object, your Honor. It seems to me that it is very-

The Court: I will sustain the objection to the form of that question. In view of the experience

that this witness has had, it seems to me that you might undertake to show by him either that there are other connectors besides this type of connector in Exhibit 17, or that there are not, so far as he knows, or that you might undertake to show by him whether he knows of the use of the connectors of the types of 1 and 2 and 17 for more than one purpose?

Mr. Bohleber: Well, I will withdraw the question, your Honor.

The Court: But where he would expect it to be used, that is speculative.

Q. Do you know any other use of Plaintiffs' Exhibits 1 and 2 other than the uses similar to that shown in Plaintiffs' Exhibit 16? A. I do not.

Cross Examination by Mr. Crews:

- Q. Mr. Forsyth, I noticed that when you were examining Exhibit J it was in the condition that it now is, that is, the bushing is not down inside the connector. It is my recollection that when we stopped discussing Exhibit J yesterday the bushing was in the connector? A. I pulled it out.
- Q. Oh, you pulled it out when you were talking? A. Yes.
- Q. And your testimony with respect to relative visibility of the bushing, and so forth, was after you pulled it out, or while it was still in place? A. No, it was still in there, perfectly visible. Its visibility is not the object of the bushing.
- Q. That is the Code requirement, isn't it? The specific Code requirement is that bushings be used and that they be visible? A. It is at the present time, yes. May I add that our inspectors are instructed to always ascertain

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whether the bushings are or are not in place, no matter what form of connector may be used.

- Q. Well, if this bushing—I will now push it back in again the way it was left yesterday, if I can; I never did this before. There it is. Now, what would make that bushing fall out if it were connected in a building, the job was done and it was left? A. Well, there is a lot of vibration in many buildings, and the installation of the bushings in this manner would be performed by the mechanic after the job was finished, if at all, and there is nothing except a visual examination of each and every outlet to see whether or not the bushing has been provided, and unless this armor is seated tightly up against the shoulder of the connector, it is possible for that bushing to spread out over the outside armor of the cable and not go inside of it at all.
- Q. Have you examined the relative dimensions of the cable and the diameter at the inside of the fingers of these connectors of this type? A. I don't believe that I have.
- Q. Mr. Latzer testified that it was a physical impossibility to push one of these bushings through the connector after the connector and cable had been put together, and a physical impossibility to keep the bushing from going inside the cable. Now, would you mind again removing that bushing and looking over the dimensions and see what you think of that statement? A. Well, what do you want me to do?
- Q. Suppose you see if you can put that bushing in place there without putting it inside the cable. A. Not as assembled.
- Q Well, I understood you to say that if the cable and connector were assembled first and the bushing put in place afterwards there would be danger of the bushing not going inside the cable. A. I qualified that by

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saying if the assembly had not been properly made up by the mechanic on the job.

Q. And if the armored cable is not seated properly against the connector, there is danger of it coming off, isn't there? A. What?

Q. The cable coming off. That would be a very sloppy job for a workman to do, would it not? A. Yes, but we have many sloppy workmen in the electrical business.

Q. But a good workman would never put one on in that manner? A. He would never put one on from the inside, no.

Q. No, I am talking about the cable and connector, and any workman would always be careful that the cable was up against the shoulder of the connector? A. Oh, yes, certainly:

Q. And you would not—the cases where the cable would be installed without being against the shoulder of the connector would be extremely rare, would they not! A. Well, I don't know. It has happened many times.

Q. You spoke of vibration causing that bushing to fall off, fall out. Isn't it a fact that in this courtroom right now on the walls of the courtroom there is practically no vibration? A. I haven't noticed any.

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Q. Do you have in mind any particular vibration? It seems rather impossible to me that there could be such vibration as to make a bushing fall out. I would like to have you explain that. A. Well, in the house in which I live in Brooklyn the street has become a thoroughfare for heavy trucks, and often the whole house shakes from the passing of those trucks on the street, trembles.

Q. And that vibration could cause one of these bushings to come out? A. If inserted like that, without anything to hold it.

Q. You haven't pushed it all the way in now, when you have answered like that, you still haven't pushed it all the way in? A. I haven't tried to.

- Q. There is a great deal of friction there, now that on are trying to, isn't there? A. Yes, there is quite a ittle.
- Q. How recently have you done any actual inspection n jobs yourself? A. Oh, a couple of weeks ago.

Q. Have you done much recently! A. No, I don't go round very much on the outside.

Q. Have you seen any cases of bushings installed in he manner of Exhibit J? A. No.

Q. Then I suppose you could not tell as of having eard of any cases where any have fallen out? A. No. did not say there had been any, but there is a possiility of that happening.

Q. Well, would you consider that a very strong possiility! A. Well, perhaps not, but why consider a posibility when you can insure the other and proper method f installation?

Q. You say proper method of installation. I undertood you to testify that this method complied with the equirements of the Code! A. This method here!

Q. Yes, Exhibit J. A. It does in a sense. Q. Do you expect your inspectors to go outside the ode in imposing requirements on electrical contractors? . They are expected to report any deviation from the ode to the office.

Q. And as long as they find the Code complied with, bey are expected to pass the job! A. Yes.

Q. And when you say that this is not an approved ethod, you simply mean that you do not approve this : ethod? A. That is right.

Q. Now, you were talking about these connectors like xhibits 1 and 2, which we have been referring to as eephole connectors. I believe you referred to them as pen end connectors; is that right? A: I could not think f the word "peephole" at the time.

Q. You were referring to the same thing? A. Yes.

Q. I just wanted to be sure we understood each other. Now, you said that the Board of Fire Underwriters had not yet gotten around to requiring that particular type of connector to be used. I take it that the Board of Fire Underwriters does not undertake to push any particular product except as may be necessary for safety reasons; that is correct, isn't it? A. That is right.

Q. It would not make any difference to the Fire Underwriters whether one manufacturer sold a lot of con-

nectors or another? A. No.

Q. And your reason for approving these connectors of Exhibits 1 and 2, or of requiring them as against Exhibit 17, would be because of the visibility of the bushing? A. Right.

Q. The visibility, while definitely assuring that the bush-

ing would stay in place? A. Yes.

Q. Well, don't you know, Mr. Forsyth, that there are other bushings that could be used with the connector of Exhibit 17 that would have visibility and be positively retained in place? A. I think there are one or two other forms. I don't remember just what they are.

Q. Well, if there are such other forms, why should the Board of Fire Underwriters rule this connector out entirely? A. It has not yet been done before the New York Board of Fire Underwriters, but has been done in

the National Electrical Code.

Q. The connector of Exhibit 17 has been ruled out!

A. Which! This one!

Q. Yes. A. The Code has indicated that it requires that the bushing shall be visible after insulation.

Q. I thought you just told us that you knew of other bushings that could be used with Exhibit 17 that would be visible? A. With this, you mean?

Q. No; this is Exhibit 17. A. Well, I think there is another bushing with a little rib around it that can be inserted between the armor and insulation of the cable

first and then that inserted in the connector and then the connector in the box.

The Court: Have you Exhibit E there?

Mr. Crews: Yes, sir.

The Court: Suppose you ask the witness if he is familiar with that bushing.

Q. I show you two bushings that have been identified as Plaintiffs' Exhibit E. Are you familiar with that type bushing! A. Yes, I have seen them.

Q. They could be used with Exhibit 17 and still be visible, could they not? A. Certainly.

Q. And there would be means for positively holding it in place? A. Right.

Q. And that bushing could also be used with Exhibit 1 or Exhibit 2, could it not? A. It could.

Q. It is well adapted for that purpose, is it not? A. It can be used for that purpose, yes.

Q. Is that also true of Exhibit F? A. Yes. Yes, I mess that could be used, although I have never seen that in actual use.

Q. Isn't it true, Mr. Forsyth, that the Walker cable s pretty widely in use in various parts of this country? A. I don't know. It is not used in New York City.

Q. The Walker people have been trying to get it approved in New York City, have they not? A. They did some time ago but were not successful.

Q. And didn't they make representations to that board, at that time showing that it was approved and in wide use throughout the country? A. They made some statements to that effect which we did not and could not verify.

Q. Didn't they verify the statements? A. No, not to my knowledge.

Q. Well, you do know that it is used to some extent?

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A. I have heard that it was. I have not seen it.

Q. And the connectors of Exhibits 1 and 2 are adapted for use with the Walker cable, are they not? A. Yes, I presume so.

Mr. Crews: That is all.

The Court: Have you anything further to ask Mr. Forsyth at this time?

Mr. Bohleber: No, nothing further.

The Court: I would like to ask him one or two questions.

By the Court:

Q. Mr. Forsyth, do you know of any other connectors in use similarly used to Exhibits 1, 2 and 17? A. Well, there have been many forms of connectors submitted and some approved and some not.

Q. Well, do you know of any that are in common use now or have been within the last five years? A. Other

than the type shown?

Q. Other than those shown by Exhibits 1, 2 and 17!

A. No, I could not say.

Q Do you know of any other use to which objects of the type of Exhibits 2 and 3 are put besides as connectors in the installation of electrical wires or conductors?

> Mr. Bohleber: Your Honor, let me interrupt you. You mean 1 and 2, instead of 2 and 3, don't you! The Court: 1 and 2, yes.

A. No. I do not.

Q. You don't know of any other use they are put to!
A. No, I do not.

The Court: All right.

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ADNAH MCMURTRIE, recalled as a witness on behalf of the plaintiffs, in rebuttal, being previously sworn, further testified as follows:

Direct Examination:

- Q. Mr. McMurtrie, have you marked your devices manufactured under the patent with the patent number or the patent date? A. We marked the cofftainers, not the articles themselves.
- Q. That is for the connectors which your company, Thomas & Betts Company, make; they mark them? A. Correct.
- Q. As I understand it, the National Electrical Products Company had a license at one time under the patent in suit. Did it mark its device patented? A. It did mark the devices "Patented."
- Q. And what about your other licensees? A. I don't know.

Cross Examination:

Q. Do you recognize that as a catalog put out by your company (handing)? A. Yes, sir.

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Q. And this is the section of the catalog under the beading "Armored Cable Conn."? A. Probably.

Q. That refers to armored cable connectors? A. You are going to ask me if we mark the catalog with patent numbers?

The Court: No; just answer the question.

Q. The heading under the section "Armored Cable Conn." means armored cable connectors? A. Correct.

The Court: What page is that, or is there any designation?

Q. Does this mean page 6-E-1 that we referred to? A. Yes.

The Court: One minute. What is the page you just referred to?

Mr. Crews: The page with the heading on it, is an inset page, sort of a tabulation sheet marking the various sections.

The Court: I know, but how is anyone on appeal going to know what you refer to unless you make some designation of it?

Mr. Crews: Well, there is nothing on the page except what I read.

The Court: Well, all right. Suppose you mark that page for identification that you read from so we will know what you are talking about. If there is no number on it, state that.

Mr. Crews: It is a sheet stuck in the book following 6-D-1, page 4.

(The sheet was thereupon marked Defendants' Exhibit N for identification.)

Q. What do you call that page number I am now showing you? A. That is gotten out by the sales department. I don't think it had a number on it.

Q. Well, it is the next sheet following the one just marked for identification, is it not? A. Yes, sir.

Q. And that sheet shows the pictures of four connectors A. Yes, sir.

Q. And each of them is marked "Patented"! A. Correct.

Q. Now, turning over to the other side of that same sheet, which is marked 6-E-1, page 2, we have pictures of five connectors; is that right? A. Correct.

Q. And three of them are marked "Patented"? A. Correct.

Q. On the next page, which is marked 6-E-1, page 3, re have pictures of five connectors? A. Yes.

Q. And one of them is marked "Patented"? A.

brrect.

Q. The connector at the top of that page marked No. 40-V is one of the peephole type of connectors we have een concerned with here, is it not? A. Correct. .

Q. Is it marked "Patented"? A. It is not.

Q. Do you know what kind of patent marking was put in these products' you just testified were marked "Patnted"! A. I have a sample there that shows stampng with a steel die.

The Court: Well, that means with respect to those that were put out by the National Electrical Products Company?

The Witness; Yes. They own the patent.

The Court: What was the type of containers in which Thomas & Betts sold their connectors?

The Witness: They were a small container, containing about 50 of the connectors. These were taken off the filled containers yesterday at my instructions. I had seen them out there, and asked . 41: one of our employees to empty out the connectors and tear off the labeled end (handing cardboards).

Q. May I see one of them?

The Court: How long have these particular end labels been in use?

The Witness: Since the time we took over the exclusive license:

Q. And would you mind giving us that date again? When we took our license?

Q. Yes. A. I don't remember.

Mr. Bohleber: That is of record.

The Witness: I really can't remember it. You have it there. You have the license. I think it was February 22, 1932, wasn't it! Anyway, you have the license.

Mr. Fassett: January 22, 1932.

Q. Do you recognize this object I am now handing you as a label from one of your boxes? A. Yes, St.

Q. And that is a label that contained connectors No.

413 240-V? A. Yes, sir.

Q. The ones such as I showed you in the catalog? A. That is not marked "Patented."

Q. What did you say? I didn't get the last remark.

A. I said there is no "Patent" mark on that, is there?

(The label was thereupon offered and received in evidence as Defendants' Exhibit O.)

- Q. A moment ago you said that there was a sample here of one of the connectors. Your attorney has handed me this. Is this the one you referred to? A. Yes, sir.
- Mr. Crews: I offer that in evidence, and I call your Honor's attention to the fact that—no, I because your pardon. There are two patent numbers on that. I did not see the other one. I will withdraw the offer.
 - Q. Can you identify that label, Exhibit O, as of any particular date? A. It is a very old label, probably before we had our license. We were manufacturing these prior to receiving the license and patent suit was threatened against us, when we got together with the manufacturer and took a license under the patent. You see the difference in color.

The Court: Well, when were these labels used, referring to Defendants' Exhibit O?

The Witness: Prior to our taking the license under the patent.

Mr. Crews: That is all, your Honor.

Mr. Bohleber: I think, your Honor, we will offer one of these box faces in evidence as Plaintiffs' Exhibit 33.

(One of the box faces was thereupon received in evidence as Plaintiffs' Exhibit 33.)

Mr. Bohleber: I think, your Honor, we had better offer this exhibit in evidence identified by the witness as having the patent mark on it.

The Court: That is the connector made by the plaintiff Thomas & Betts Company?

Mr Bohleber: National Electric Products Company.

The Court: No, that was made by you, wasn't it? The Witness: No, this partic lar connector was made by National Electric Products Company, the owner of the patent, and after we took over the patent it became a licensee.

(The connector was thereupon received in evidence as Plaintiffs' Exhibit 34.)

The Court: That has the patent on it?

The Witness: The patent date and number.

Mr. Bohleber: That is all, your Honor.

The Court: I would like to see that last exhibit, 33. Mr. Crews, what am I to understand is your contention with reference to the examination you made of the last witness with respect to the catalog, wherein you brought out from him that certain cuts bore the appellation "Patented" and others did not?

Mr. Crews: It shows, your Honor, that it was

the practice of the plaintiff Thomas & Betts Company to mark "Patented" very widely through their book on everything presumably that is covered by a patent, but on the particular item we are concerned with here they did not mark it "Patented" in their catalog.

The Court: Well, you mean that there were certain cuts representing connectors that were marked "Patented" and certain ones that were not marked "Patented"?

Mr. Crews: Yes, your Honor, a great many marked "Patented," but the one showing the peephole connector was not marked "Patented."

The Court: That is Exhibit number-

Mr. Crews: I did not offer that in evidence. We had the testimony of the witness with respect to it. It shows at the very least, your Honor, that they are careless about their patent mark and tends to confirm Mr. McMurtrie's—

The Court: I don't know whether I would be warranted in drawing any such inference, because there isn't anything before me to indicate what those items are that are marked "Patented" and what those items are that are not marked "Patented." It may very well be that there is no claim to be made, I don't know, by the plaintiffs that the defendants sold any of the articles which, according to that catalog, are not marked "Patented." I can't tell that. Now, neither is there any proof here that defendant or any of the defendants when they bought these connectors purchased them in boxes with these labels on them. All right.

Mr. Crews: Has the plaintiff rested?
Mr. Bohleber: The plaintiff rests.

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Frederick Latzer—For Defendants—Sur-Rebuttal— Direct.

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· DEFENDANTS' SUR-REBUTTAL PROOFS.

FREDERICK LATZER, recalled as a witness on behalf of the defendants, in sur-rebuttal, being previously sworn, further testified as follows:

Direct Examination:

Q. Mr. Latzer, I show you Plaintiffs' Exhibit 18. That is the National Electrical Code for what year? A. 1933.

Q. And I hand you a book and ask you what it is? A. It is the National Electrical Code for the year 1935.

Q. Will you please read a section beginning on page 57, Article 5, Section 505, Subsection d from that code? A. (Reading): "At all points where the armor terminates, an approved fitting shall be provided to protect wires from abrasion, unless the design of the outlet boxes or fittings required by paragraph a of section 512 is such as to afford equivalent protection, and in addition, an approved insulating bushing or its equivalent approved protection shall be provided between the conductors and the armor. The connector or clamp by which the armored cable is fastened to boxes or cabinets shall be of such design that the insulating bushing or its equivalent will be visible for inspection. This bushing will not be required with lead-covered cables."

Q. And that last sentence is new in this code with respect to the 1933 code? A. Yes; it was not there in the 1933 code.

- Q. Can you tell us what lead-covered cables are? A.
- Q. Before you do that-

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Frederick Latzer—For Defendants—Sur-Rebuttal— Direct.

(The Code Book for 1935 from which the witness had just read was thereupon offered and received in evidence as Defendants' Exhibit P.)

The Court: That is 1935?

Mr. Crews: Yes, sir.

The Witness: May I have the question?

Q. (Read by stenographer.) A. Lead-covered cables are insulated conductors around which either singly or in an assembly of more than one conductor there is placed a lead protection, the purpose of the lead protection being to provide protection against moisture, very largely. In an armored cable this lead covering would be placed over the conductors and under the armor, that is between the armor and the conductor assembly.

Q. Then if I may paraphrase your testimony, would it be correct to say that lead-covered cable is BX except that there is lead between the conductors and the cable!

A. That is correct.

Q. Is this lead-covered cable something that is in use A. Oh, yes.

Q. And is it used with connectors of the types of Plaintiffs' Exhibits 1 and 2! A. It is.

(Whereupon Plaintiff and Defendants rested)

Stipulation and Order Approving Narrative Statement of the Evidence.

[SAME TITLE]

It is Stipulated between the atterneys for the parties hereto, subject to the approval of the Court, that the following is a true and correct transcript of the record of the District Court in the above-entitled matter (testimony of witnesses being, with certain exceptions, stated in narrative form), and may be treated and considered as the record of the trial of said cause in making up the transcript of the record on appeal.

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BOHLEBER & LEDBETTER, Attorneys for Plaintiffs.

DARBY & DARBY, Attorneys, for Defendants.

IT IS SO ORDERED:

MURRAY HULBERT, U. S. D. J.

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New York, New York, November , 1938.

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Plaintiffs' Exhibit No. 3.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

THE THOMAS & BETTS Co., a corporation, and NATIONAL ELECTRIC PRODUCTS CORPORATION, a corporation,

Plaintiffs,

VS.

ELECTRICAL FITTINGS CORPORATION, a corporation, Josephson Sales Corporation, a corporation, and Samuel Josephson and Belle Josephson, individuals,

Defendants:

Equity #81/229. U. S. Letters Patent to

> Fuliman 1,769,947.

Interrogatories Filed by Plaintiffs Pursuant to Equity
Rule 58 to be Answered Under Oath by the
President or Other Qualified Officer of the
Defendant Company.

INTERROGATORY No. 1:

State the names of all defendants who, subsequent to the granting on July 8, 1930 of the patent in suit and prior to the filing of the bill of complaint, in the Southern District of New York, or elsewhere in the United States, have sold or caused to be sold

(a) Set Screw Connecters like Plaintiffs' Exhibit 1, and/or

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Squeeze Connecters like Plaintiffs' Exhibit 2, or either of them, which exhibits are now in the custody of plaintiffs' attorneys and which are available for inspection by the defendants' attorneys at any reasonable time.

BROGATORY No. 2:

the answer by any or all of the defendants to Ingatory No. 1, or any part thereof, is in the affirmastate

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- which of the alleged licensee companies of the plaintiffs, named in paragraph 8 of defendants' answer, sold, respectively, the connecters referred to therein,
-) the rame of the defendant purchasing the same, and
- the date or dates when said connecters, respectively, were so purchased.

BROGATORY No. 3:

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ate all the dates subsequent to the granting on July 30 of the patent in suit and prior to the filing of bill of complaint, on which cable connecters similar lose charged to infringe the patent in suit were pured by the defendants or either of them from Apple-Electric Company of Chicago, Illinois, and as to each hase date state the name of the purchaser-defendant.

RROGATORY No. 4:

ate all the dates subsequent to the granting on July 30 of the patent in suit and prior to the filing of

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the bill of complaint, on which cable connecters similar to those charged to infringe the patent in suit were purchased by the defendants or either of them from Steel City Electric Company of Pittsburgh, Pennsylvania, and as to each purchase date state the name of the purchaser-defendant.

INTERPOGATORY No. 5:

State all the dates subsequent to the granting on July 8, 1930 of the patent in suit and prior to the filing of the bill of complaint, on which cable connecters similar to those charged to infringe the patent in suit were purchased by the defendants or either of them from Conduit Fittings Corporation of Chicago, Illinois, and as to each purchase date state the name of the purchaser-defendant.

INTERROGATORY No. 6:

State all the dates subsequent to the granting on July, 8, 1930 of the patent in suit and prior to the filing of the bill of complaint, on which cable connecters similar to those charged to infringe the patent in suit were purchased by the defendants or either of them from Sterling Manufacturing Company of Connecticut, and as to each purchase date state the name of the purchaser-defendant.

(sgd) Bohleber & Ledbettes, Attorneys for Plaintiffs.

Dated: December 23rd, 1935. fad

Plaintiffs' Exhibit No. 4,

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

THE THOMAS & BETTS Co., a corporation, and NATIONAL ELECTRIC PRODUCTS CORPORATION, a corporation,

Plaintiffs,

VS.

poration, Joselson Sales Corporation, a corporation, and Samuel Joselson and Belle Joselson, individuals,

Defendants.

#81/229.

U. S. Letters
Patent
Fullman
1,769,947.

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DEFENDANTS' ANSWERS TO INTERROGATORIES.

For answer to the interrogatories propounded by the claintiffs in this cause, defendants, by Samuel Joselson, resident of Electrical Fittings Corporation, state as follows:

- 1. The answer to Interrogatory No. 1 is Joselson Sales Corporation and Electrical Fittings Corporation.
- The answer to Interrogatory No. 2(a) is—
 Appleton Electric Company
 Steel City Electric Company
 Sterling Manufacturing Company
 Chicago Steel Tank Company (predecessor of Conduit Fittings Corporation).

The answer to Interrogatory No. 2(b) is Joselson Sales Corporation and Electrical Fittings Corporation.

3. The answer to interrogatory No. 2(c) and Interrogatories Nos. 3 to 6 inclusive, insofar as defendants are required to answer these interrogatories under the order entered herein, is as follows:

Cable connectors similar to plaintiffs' Exhibits A or B were purchased by the Joselson Sales Corporation from the companies named below in the months shown.

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Steel City Electric Company	April	1935	
	May	1935	
	June	1935	
Chicago Steel Tank Company	November -	1934	
	December	1934	
Sterling Manufacturing Company	February	1933	
	March	1933	
	October	1933	
	November	1933	
	December	1933	
	January	1934	
	February .	1934	
	March	1934	
	May	1934	
	June	1934	
	July	1934	
Appleton Electric Company	August	1934	
	September	1934	
	October	1934	
	November	1934	
	December	1934	
	March	1935	

...

Cable connectors similar to plaintiffs' Exhibits Å or B were purchased by Electrical Fittings Corporation from the company named below in the months shown.

Steel City Electric Company

 July
 1935

 August
 1935

 September
 1935

 October
 1935

ELECTRICAL FITTINGS CORPORATION,

By Samuel S. Joselson,

Its President.

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County of New York \
State of New York \
State

On this 1st day of February, 1936, before me personly appeared Samuel Joselson of Electrical Fittings Corporation, known to me and who signed the foregoing Answers to Interrogatories in my presence and swore that the answers were true to the best of his knowledge and belief.

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Rose A. Batterman, Notary Public. (Seal) 4.18

Plaintiffs' Exhibit No. 5.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

THE THOMAS & BETTS Co., a corporation, and NATIONAL ELECTRIC PRODUCTS COR-PORATION, a corporation,

Plaintiffs,

ELECTRICAL FITTINGS CORPORATION, a corporation, Josepson Sales Corporation, a corporation, and SAMUEL JOSELSON and Bells Joselson, individuals,

Defendants.

Equity ' 81/229.

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U. S. Letters Patent Fullman 1,769,947.

DEFENDANT'S FURTHER ANSWER TO INTERROGATORIES.

By agreement of counsel defendant gives further an swers to plaintiff's interrogatories as follows:

- 1. Wherever the previous answers to interrogatories referred to plaintiffs' Exhibits A and B this should have been plaintiffs' Exhibits 1 and 2 respectively, and the previous answers are to be so interpreted.
- 2. The particular set screw connectors which constitute plaintiffs' Exhibit 1 were purchased by Joselson Sales Corporation from Steel City Electric Company in April. May or June, 1935.
- 3. The particular squeeze connectors which constitute plaintiffs' Exhibit 2 were purchased by Joselson Sales

poration from Chicago Steel Tank Company in Noaber or December 1934.

Defendants are unable to give the dates of purchase re specifically because there is nothing to distinguish ween different batches of connectors purchased from same company.

ELECTRICAL FITTINGS CORPORATION,
By (S) SAMUEL JOSELSON,
Its President.

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on this 8th day of Feb. 1936, before me personally appred Samuel Joselson of Electrical Fittings Control, known to me and who signed the foregoing Furranswer to Interrogatories in my presence and swore the answers were true to the best of his knowledge belief.

miy of New York (

(S) EDWIN A. DENZEL,
Notary Public.
(Seat)

Plaintiffs' Exhibit No. 6.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

THE THOMAS & BETTS Co., a corporation, and NATIONAL ELECTRIC PRODUCTS CORPORATION, a corporation,

Plaintiffs.

VS.

ELECTRICAL FITTINGS CORPORATION, a corporation, Joselson Sales Corporation, a corporation, and Samuel Joselson and Belle Joselson, individuals,

Defendants.

Equity No. 81-229.

U. S. Letters Patent Fullman 1,769,947.

MOTION FOR BILL OF PARTICULARS.

Now come the plaintiffs in the above entitled cause and move that the Court, pursuant to the provisions of Equity Rule 20, order the defendants to furnish further and better particulars of the matters stated in paragraph 8 of their answer, concerning defendants' alleged "separate and complete defense" to the bill of complaint, in the following respects:

1. It is alleged in paragraph 8 of defendants' answer, "that the connectors sold by them, the sale of which is charged to constitute an infringement of the said Fullman patent in suit, were all acquired from licensees of plaintiffs, jointly or severally, under the said patent in suit, to wit:

*

Appleton Electric Company of Chicago, Illinois. Steel City Electric Company of Pittsburgh, Pa. Conduit Fittings Corporation of Chicago, Ill. Sterling Manufacturing Company of Connecticut."

and in an affidavit by Samuel Joselson, defendant, verified February 1, 1936, and filed in reply to interrogatories heretofore propounded by r' intiffs, it is alleged that

"Cable connectors similar to plaintiffs' Exhibits A or B (1 or 2) were purchased by the Joselson Sales Corporation from the companies named below in the months shown.

458

Sterling Manufacturing Company October 1933 November 1933 December 1933 January 1934 February 1934 March 1934 May 1934 June 1934 July . 1934"

459

n view of which plaintiffs desire defendants to furnish urther and better particulars by stating whether the onnectors, which defendants allege were

"sold by them, the sale of which is charged to constitute an infringement of the said Fullman patent in suit,"

eferred to in paragraph 8 of defendants' answer, include hose which defendants admit purchasing from Sterling danufacturing during the months of October, November

462

and December, 1933, and January, February, March, May, June and July, 1934, aforesaid.

2. Please state which of the eighteen (18) patents plead in the answer as anticipations of the patent in suit, defendants will, at final hearing, rely upon, as such.

MEMORANDUM.

At the argument of plaintiffs' motion for leave to file interrogatories, which motion was granted on January 13, 1936, by Judge Caffey, counsel for plaintiffs stated that if defendants were able to make good their "separate and complete defense" as set forth in paragraph 8 of their answer that plaintiffs would joint in an application for an order dismissing the suit.

Unless it transpires from the further particulars now sought from defendants that the Joselson Sales Corporation has sold some of the cable connectors purchased from Sterling Manufacturing Company between October, 1933, and July, 1934, both inclusive, or plaintiffs are able to adduce at final hearing other evidence of infringement, then plaintiffs will, for lack of evidence of infringement, join with defendants in an order dismissing the bill.

Bohleber & Ledbetter, Attorneys for Plaintiffs.

New York, N. Y., March 23, 1936.

Plaintiffs' Exhibit No. 7.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

THE THOMAS & BETTS Co., a corporation, and National Electric Products Corporation, a corporation,

Plaintiffs,

VS.

ELECTRICAL FITTINGS CORPORATION, a corporation, Joselson Sales Corporation, a corporation, and Samuel Joselson and Belle Joselson, individuals,

Defendants.

Equity #81/229.

464

DEFENDANTS' BILL OF PARTICULARS.

In answer to the interogatories contained in plaintiffs' motion for bill of particulars, it is stated as follows, the paragraphs herein being numbered to correspond with the paragraphs in plaintiffs' motion:

465

- 1. The electrical connectors purchased by the Joselson Sales Corporation from the Sterling Manufacturing Company were sold by the Joselson Sales Corporation.
- 2. At final hearing defendants will rely upon all of the patents listed in the answer to show the state of the prior art and as anticipations of the patent in suit.

As at present advised, defendants will particularly stress the following patents in view of patent No. 1,687,-

013, issued to Frederickson October 9, 1928, referred to in the patent in suit:

681,416
949,628
1,130,483
1,192,150
1,235,926
1,245,077
1,246,102
1,279,256
1,585,688
1,597,486

DARBY & DARBY, Attorneys for Defendant

Dated: April 21, 1936.





PLAINTIFF'S EXHIBIT No. 8

July 8, 1930.

J. M. G. FULLMAN

1,709,947

COMMENTER FOR MESCTRIGAL COMPUTS Filed July 25, 1928

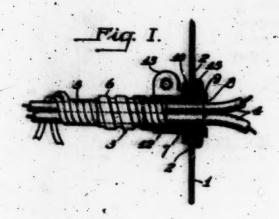


Fig. II.



Fig. III.

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Fig. IV.



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1.769.947

UNITED STATES PATENT OFFICE

JAMES M. G. PULLMAN, OF SEWHORLST, SERVETLYANIA, ASSESSMENT TO NATIONAL METAL MOLDING COMPANY, OF STREETLYANIA, A CORPORATION OF PERSONAL PROPERTY AND ASSESSMENT OF PERSONAL PROPERTY ASSESSMENT OF PERSONAL

COMMECTER FOR RENOTRICAL COMPUTES

Application Stel Paly St., 1988. Sected Me. 100,000.

In connecting electrical conduits and armoved cables to outlet because and other electrical fittings it is usual to est away the conduit wall or the shouth of the cable and to pass the unsheathed conductors into the box for making the desired electrical connections. In the use of metallic conduits, and particularly in the case of so-called flexible metallic armoved cable, this leaves a more of so-called flexible metallic armoved cable, this leaves a more abrades or cuts into the insulation on the exposed conductors, and is likely to cause abort circuits and other injurious effects. In order to shield the exposed conductors from it the edge of the cut-away metallic armor it has been proposed recently to provide a bushing of insulating material which can be slipped over the exposed conductors where the armor is cut away, and having a shoulders bearing against the sharp metallic edge of the armor, as shown and described in Letters Patent No. 1,867,018, dated October 9th, 1929. When such a bushing is used at the joint between an armoved cable and an outse let box with connectors of the present usual types, it is largely or altogether hidden within the connector, so that its presence is not apparent to an impostor or other observer. The present invention provides an improved and having means for holding the insulating and protective bushing in place, which will permit the bushing to be visible, and thus permit ready inspection of the system.

In the accompanying drawings Figure 1 is a sectional elevation of an armored cable provided with an insulating bushing in its throat and joined to an outlet box by my improved connecter. Figure 2 is a front elevation of the structure shown in Figure 1. Figure 3 is a view of the bushing in elevation, and Figure 4 is a front view thereof. Figure 5 is a view of the cable and connecter in elevation, as shown in Figure 1.

The wall of the outlet box is designated by the numeral 1, and the usual outlet opening

in elevation, as shown in Figure 1.

The wall of the outlet box is designated by the numeral 1, and the usual outlet opening by the numeral 2. The flexible armored cable 3 herein shown is of the well known type. The conductors 4 have wound upon them a jacket 5 of helically coiled strips of

solves a material, such as paper, and the metallic armser 6 is coiled tightly around the patheted conductors. When the edge of the armser 6 has been cut away, the jacket 5 is unwound for a suitable distance and broken of, thus leaving an annular space around the conductors within the armored cable back of the cut-away sign. Into this space there is slipped around the conductors the split telepher bashing 7 formed of insulating material and having at its outer edge the integral shoulder 8 which bears against the cut-away edge of the armor, leaving the expeed consisters 4 projecting therefrom. The connecter may be of a variety of suitable forms, but for purposes of illustration I have shown herein the usual pinch connecter having a forward sylindrical threaded portion 9 projecting through the opening in the cutlet box, with the shoulder 10 bearing against the outer face of the will of the box, the transverse slit 11, and the rearwardly projecting bifurcated barrel portion 12 having the opposite ears 13 connected by the binding screw 14, by means of which the bifurcated barrel portion is caused to pinch the armored cable tightly. The connecter is held in place in the opening by means of the lock nut 15 screwed upon the threaded inner portion 9 and bearing against the inner face of the wall of the box.

In order to retain the bushing in place in such a way that it will be visible to an ob-

In order to retain the bushing in place in such a way that it will be visible to an observer, the connecter is provided at the inner edge of the portion 9 with a plurality of inwardly projecting fingers which overhang and bear upon the outer face of the shoulder 8 of the bushing, preventing its displacement, while at the same time the bushing between the fingers is readily visible to an inspector or other observer. In fact, as shown in Figures 1 and 5, the shoulder of the bushing projects slightly beyond the side edge of the lock nut 15, so that it can be seen from the side as well as from the front. This is of considerable practical advantage in the installation, and inspection of electrical conduit systems of this type.

It will be understood that the specific form of the connecter may be varied, and it 100

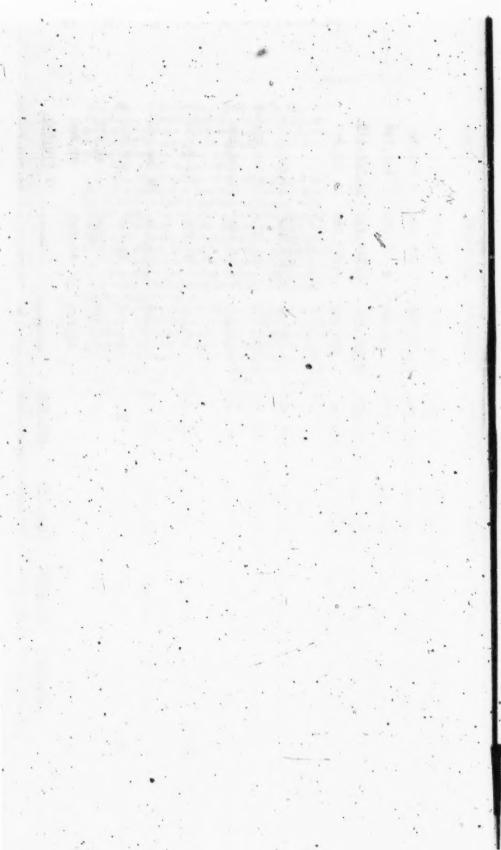
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JAMES M. G. PULLMAN.

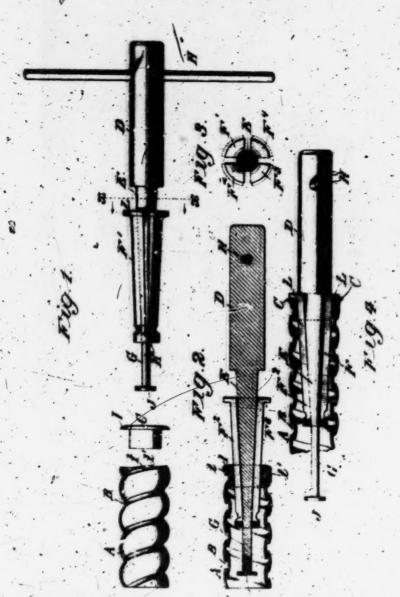
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258,626 2,857,276	573,588 5,498,787	87,550 668,136	1,745,725 10,596,178	2,665,289 19,615,877	3/1/87 to	1,428,608 15,681,118	1,622,490 15,785,928	122,000 1,781,554	35,999 519,865	1,625,276 8,489,094	69,545 407,946	1,200 30,675	46,600 88,500	1,575,585	4,949,718 44,555,698	8 (8.8.) 8
637,045	1,673,705	484,051	8,300,020	5,752,725		8,512,186	3,757,711	380,581	95,190	3,216,393	138,950	1,470	35,700		10,888,188	*Includes also 890,000 sold 11/4/33 to 12/31/34
463,060	1,059,775	108,610	1,822,406	3,448,849		2,475,891	3,598,176	345,530	188,820	1,658,478	718,200	3,000		142,820	8,505,815	980,000 sold
293,100	383,000	102,935	1,476,444	2,672,764		2,282,500	1,953,309	364,585	210,901	1,105,821	99,500	2,500		008,800	6,178,107	cludes also
840.875	980.175	129.450	1.028.127	2.978.827		5,558,765	3,431,603	860,388	38,224	558,406	10,950	4,500		829,275	8,692,619	4
Bette Co.	406 451	100 889	1 994 450	0 100 198	201120112	1,653,169	1,290,139	528,780	52,638	366,721	11,700	17,300		293,600	4,013,747	
The Thomas & Betta Co.					Licensees			Loxall and similar types 328,780	Comb. Loxall and similar types	Universal and similar types	Hinge and cimilar types		·	sno		el .
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PLAINTIFF'S EXHIBIT No. 31

E. T. GREENFIELD. FLEXIBLE WETALLIC CONDUIT.



Witnesses

UNITED STATES PATENT OFFICE.

EDWIN T. GREENFIELD, OF NEW YORK, N. Y.

FLEXIBLE METALLIC CONDUIT.

SPECIFICATION forming part of Letters Patent No. 640,768, dated January 9, 1900. Angliables Bel July 17, 1800. Social So. 794,080. (So maid.)

Be it known that I, EDWIN T. GRANNVILLD, a citizen of the United States, residing at New York, in the becough of Maniattan, county of New York, and State of New York, have mades new and useful Improvement in Plexible Metallic Conduits, of which the following is a specification.

My improvement has for its object to pro-vide means for giving to the ends of faxible and other a stallie conduits, like those dis-closed in a prior patent granted to me on the 8th day of August, 1889, and numbered 630,801, smowthed or finished ends.

In the before-mentioned patent I have de-scribed and shown a fiexible metallic tube composed of two interlooking strips of metal spirally wound the one shout the other. Inusing such conduits it is found that where the so ends are sawed off there is always left a jagged surface, which endangers the insulation of wirey being drawn into the inner surface thereof, and it was with a view of overcoming this objectionable feature that the present 15 improvement was devised.

My improvement will be understood by referring to the accompanying drawings, in

Figure 1 illustrates in side elevational view 30 a short section of flexible metallic conduit like that disclosed in the before-mentioned patent and also like that disclosed in prior piatents granted to me, the same being composed of interlocking strips of metal. Said 35 figure also illustrates the improved bushinging for overcoming the evil effects of the jagged ends of said conduit and the tool for putting the same in place. Fig. 2 is a longitudinal sectional view taken through the 40 body of Fig. 1, illustrating the manner of using the tool, the bushing-ring being in place within the end of the conduit. Fig. 3 is a transverse sectional view taken through Fig. I on the line x x and as seen looking thereat 45 in the direction of the arrows from the right toward the left hand end of the drawings. Fig. 4 is a longitudinal sectional view illus trating the completion of the use of the tool in inserting the bushing-ring within the end 50 of the conduit, the tool being shown partly in sectional and partly in aide elevational

Referring now to the drawings and first to Fig. 1, A and B represent the interlocking motallic strips which constitute or compose when wound together my novel form of conduit. It is found in actual use of the beforementioned conduit that when the a saveloned conduit that when tragged edges or jagged ends i l, which by reason of their 60 sharp edges necessarily endanger the insulation of wires being drawn into the inner surface of the conduit. My present improvement is designed to overcome this chipotion face of the conduit. My present improvement is designed to overcome this chiebtionable feature, and to this end I form an expansible metallic heading-ring C, preferably of lead and having a flange I, adverted to overlap or conceal the ends if and the ragged navest edges when put into position in the inner end of the acadsit. For the purpose of putting this ring in position I have devised a tool consisting of a body part D, having a handle H, said body part being cone-shaped at E for a definite part of its length and adapted to be inserted through an expander, consisting of four expansible parts F' F' F' F' constructed by slitting a tube with parallel alits K to a point near one end thereof, the otherend thereof having shoulders L, adapted to come into mechanical bearing with the corresponding body part D when thrust firmly home.

J is a detachable head for holding the parts

The result sought by my novel means and 85 with the novel tool hereinbefore described I effect as follows: The expansible bushingring C is put into position in the end of the conduit and the tool is inserted with the exander at its extreme left-hand position. It 90 is then forced inward by hitting the outer end of the body part D successive blows with a hammer. Thus the cone-shaped part E causes the expander F' F' F' F' to expand the cylindrical body part of the bushing-ring out- 95 ward against the inner surface of the flexible metallic conduit, thereby causing the same to be firmly secured. Finally when the shoulder L comes into mechanical contact with the flange I of the bushing-ring and the shoulder 100 of the body part D into like mechanical contact with the shoulder L the operator takes hold of the handle H and rotates the entire tool until the bushing-ring is firmly and seof the conduit, thus making a completed ant of the United States, is—

1. A metallic conduit having jagged ends, in contains ring scoured

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alt having jacged ends, a bushing-ris g ascured.

EDWIN T. GREENFIELD.

C. J. KINTSHIR. F. KRATING.

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DEPARTMENT OF COMMERCE

To all persons to whom these presents shall come, Greeting:

of this office of the File Wrapper and Contents, in the

Letters Patent of

James M. G. Fullman, assignor to National Netal Molding Company,

er 1,769,947,

Granted July 8, 1930,

for

Improvement in Connector for Electrical Conduits.

Plaintiffs' Exhibit 32, Certified copy of file wrapper and contents of Fullman Patent substituted for abstract' offered at Record, Page 186.

IN TESTIMONY WHEREOF I have hereunto set my
hand and caused the seal of the Patent Office to be
affixed, at the City of Washington, this twenty-seventh



of this office of the File Wrapper and Contents, in the

Letters Patent of

James M. G. Fullman, assignor to Mational Metal Molding Company,

mber 1,769,947,

Granted July 8, 1930,

for

Improvement in Connecter for Electrical Conduits.

Plaintiffs' Exhibit 32, Certified copy of file wrapper and contents of Fullman Patent substituted for abstract offered at Record, rage 182.

IN TESTIMONY WHEREOF I have hereunto set my hand and caused the seal of the Patent Office to be affixed, at the City of Washington, this twenty-seventh day of December, in the year of our Lord one thousand nine hundred and thirty-seven and of the Independence of the United States of America the one hundred and sixty-second.

TEST:

Delful so.

Compres.

Commissioner of Patents.

Mame JAMES B. G. FULLMAN CASAN A CASAN A CONSTRUCT OF SERICKLEY PENNSYLVANIA Invention CONSECTOR FOR ELECTRICAL CONDUITS ORIGINAL RENEWED APPLICATION FILED CONSPLETE JULY 26, 1985 1 Polition, Specification, Onth. First Presson, JULY 26, 1985 1 sheets Drawings, Ext. Div. Notice of Allowance JUN - 1930 Notice of Allowance JUN - 1930 Final Free F.25 Ext. Div. Notice of Allowance June 1930 Final Free F.25 CHRISTY & CHRISTY P O 80X 950 PITTSBURGH PA Plesociate disoracy.	NUMBER (Series of 1985)	PATENT No.176994
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	Associate Attorney	

To the Commissioner of Patents:

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Bour Betitioner

James M. G. Fullman

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respectfully prope that Letters Potent of the United States may be granted to him for the improvement a in Connector for Electrical Conduits,

set forth in the annexed specification.

hereby appoint a the firm of CHRISTY & CHRISTY, the members of which firm are Marshall A. Christy and Bayard H. Christy, and whose address is Pool Office. Box No. 350, Pittsburgh, Personylannia, his Attorneys, with full power of substitution and revocation, to prosecute this application, to alter and emend the specification, to appeal or withdraw in case of rejection, to receive the Patent when granted, and to transact all dusiness in the Patent Office relative thereto.

Sperifiration.

To whom it may Concern:

Be it beers that I. James L. G. Fullman,

residing at Sewickley

and State of

, in the County of Allegneny,

cennsylvania,

a citizen of the United States have

invented or discovered certain new and useful improvement a in

JAMES W. G. FULLMAN fre of Penylain, a SEMICKLEY Invention NECTOR FOR ELECTRICAL CONDUITS APPLICATION FILED COMPLETE Petition, Specification, JULY 26 1938 Onth, First Fee (430, 1 sheets Browings, S Entireland and person for Josue 2. 1 Recoam'd and passed for Issue. Tra law Br. Die, jas JUN - 21930 Notice of Allowance Notice of Allow Pinal Fee .. CHASTY & CHRISTY P A BOX 950 PITTSBURGH PA .tttarney Jesociate Attorney of Claims Allowed . Print Gel L'as Mouni Connectit for Electrical Con

residing of Montageloy , in the County of Alloghomy,
and State of Section of the United States,
when Post that Agrees Transcrave of Sectional Motal Molding Company,
against the Property France,

respectfully props that Letters Potent of the United States may be ground to him for the improvement's in . Commentor for Chantrical Conduits,

set forth in the annexed specification.

hereby appoint a the firm of CHRISTY & CHRISTY, the members of which firm are Marshall A. Christy and Rayard H. Christy, and whose address is Post Office Box No. 950, Pittiburgh, Possayikania, 1120 Attornayo, with full power of substitution and revocation, to prosecute this application, to alter and amend the specification, to appeal or withdraw in case of rejection, to receive the Patent when granted, and to transact all business in the Patent Office relative thereto.

James M. J. Fallows

Specification.

To whom it may Concern:

Be if known that I, James 2. G. Pallman,

residing of Sewickley

, in the County of Allegaeny,

ad State of conneylvania,

a citizen of the Unite

of the United States hove

32/3

invented or discovered certain new and useful improvement a in

of which improvement & the following is a specification.

157

In connecting electrical conduits and armored cables to outlet boxes and other electrical fittings it is usual to out svay the conduit wall or the shouth of the cable and to pass the unshesthed conductors into the box for making the desired electrical connections. In the use of metallic conduits, and particularly in the case of so-called flexible actallic armored cable, this leaves a more or less ragged metallic edge which often abredes or cuts into the insulation on the exposed conductors, and is likely to cause short etrouits and other injusious effects. In order to shield the exposed conductors from the edge of the out-gway metallic armor it has been proposed recently to provide a bushing of . insulating material which can be slipped over the exposed conducfore where the armor is out away, and having a shoulder beering against the sharp metallic edge of the armor, Then such a bushing is used at the joint between an armorec cable and an outlet box with connectors of the present usual types, it is largely or altogether hidden within the connector, so that its presence is not a perent to an inspector or other observer. The present invention provides an improved connector binding the cable to the outlet tox. and having means for holding the insulating and protective bushing in clace, which will permit the bushing to be visible, and thus permit ready inspection of the system.

In the accompanying drawings Figure 1 is a sectional elevation of an armored cable provided with an insul ting bushing in its throat and joined to an outlet box by my improved connector. Figure 2 is a front elevation of the structure shown in Figure 1. Figure 3 to a view of the bushing in elevation, and Figure 4 is a front view thereof. Figure 5 is a view of the cable and connector in elevation, as shown in Figure 1.

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2.5

The wall of the outlet box is designated by the numeral 1, and the usual outlet opening by the numeral 2. The flexible armered cable 3 herein shown is of the well known type. The conductors 4 have wound upon them a jacket 5 of belically coiled strips of fibrous material, such as paper, and the metallic armor o is coiled tightly around the jacketed conductors. edge of the armor o has been out away, the jacket 5 is unwound for a suitable distance and broken off, thus leaving an annular apage around the conductors within the arrored cable back of the cutaway edge. Into this space there is slipped around the amountars the split tubular bushing 7 formed of insulating material and having at its outer edge the integral shoulder 5 which bears against the cut-away odge of the armor, leaving the exposed conductors 4. projecting therefrom. The connector may be of a wariety of suitable forms, but for purposes of illustration I have shown herein the usual pinch connector having a forward cylindrical threaded portion 9 projecting through the opening in the outlet box, with the shoulder lobearing against the outer face of the wal- of the box, the transverse alit 11, and the rearwardly projecting bifurcated barrel portion 12 having the opposite care 13 connected by the binding screw 14, by means of which the bifurcated parrel portion is caused to pinch the armored cable tightly. The connecter is held in place in the opening by means of the lock mut 15 screwed upon the threaded inner portion 9 and bearing against the inner face of the wall of the box. 345

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3.

that it will be visible to an observer, the connector is provided at the inner edge of the portion 9 with a plurality of inwardly projecting fingers which overhang and bear upon the outer face of the shoulder f of the bushing, preventing its displacement, while at the same time the bushing between the Tingers is readily visible to an imprector or other observer. In fact, as shown in Figures 1, the shoulder of the bushing projects slightly beyond the side edge of the lock mut 15, so that it can be seen from the side as well as from the front. This is of considerable practical advantage in the installation and inspection of electrical conduit systems of this type.

It will be understood that the specific form of the connector may be varied, and it will also be understood that while the invention is of particular advantage in the use of flexible metallic armoved cables, it may be used to advantage in the installation of electrical conduits of other forms.

I CLAIM AS IT INVESTION:

of insulating material having a tubular barrel portion contained within the cable armor and a shoulder bearing against the end of the armor, and a connector and means for securing it to the cable armor having a portion projecting beyond the end of the cable armor and having inwardly projecting fingers adacted to beauton the bushing shoulder and retain the bushing in place.

33/6

2. The combination with an electrical conduit, of bushing having a tubular barrel portion contained within the conduit and a shoulder bearing against the end of the conduit, and a connector and means for securing it to the conduit, said connector having means for retaining the bushing in place while leaving it visible to coular inspection.

au)

Jours W. G. Fallanco

State of Pennsylvania

James M. G. Pullman,

have hereunto set .

the above named petitioner , being didy sworn, deposes and says that he is a citizen of the United States and resident of Soutokley;

in the County of Allegheny, and State of Pennsylvania, and that he verify believe a himself to be the original, first and sole inventor of the introducent a in

Connector for Electrical Conduits,

described and claimed in the annexed specification, and that he does not know and does not believe that the same "word over known or used before

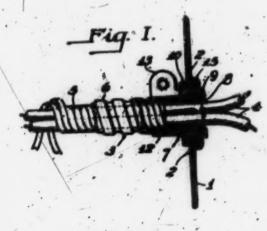
publication in any country before his invention or discovery thereof, or patented or described in any printed publication in any country before his invention or discovery thereof or more than two years prior to this application, or in public use or on sale in the United States for more than two years prior to this application, and that no application for letters potent on sail improvements has been filed by him or by

his representatives or assigns, in any foreign country .

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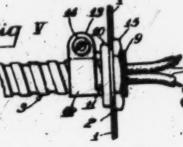












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DEPARTMENT OF COMMERCE

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April 13, 1929.

Picase and balou a communication from the EXAMINER in charge of this application.

Thomas E. Obleton

Applicant: James M.G. Fullman

Christ & Christy, P. O. Box 950, Pittaburgh, Pa. Ser. No. 295,550
Filed July 25, 1920
For Connector for Electrical
Concuits

This case has been examined.

Beferences made of resord:-

APR 13-1929

Freeman 840,019 Apr. 2, 1907 247-25 Charters et al 911,293 Feb. 2, 1906 247-25 Gilbert 949,626 Feb. 15, 1910 247-43 Appleton 1,192,150 July 25, 1916 247-43 Casper 1,279,256 Sept.17, 191c 247-43 Thomas 1,475,524 Nov. 27, 1923 247-25 Perry 1,505,600 May 25, 1920 247-25

Claim 1 is rejected on Casper in view of Thomas.

There is no invention in making the bushing shown by Casper of tubul r form as disclosed by Thomas.

Claim 2 is rejected as above. This claim is further rejected on either Freeman. Charters et al, Gilbert or Appleton wherein the bushing also serves as an element of the connector.

In the specification, page 4, lines 7 to 10, appears
the statement that the bushing can be seen from the side as
shown in Fig. 1. This statement is true only because the figure
shows the device in cross-section. However, Figure 5 discloses
the fact that the bushing can not be seen from the side.

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James E. G. Pullman.

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Connector for Electrical Consuite,

Flied July 26, 1928

Serial No

295,550

BEFORE THE EXAMPLES, DIVISION 60.

109 10. 213 Annex.

Pittaburgh, Pa. August 24, 1929.

Hon. Commissioner of Patents.

Str.

In response to Official Action dated April 13th, 1929, please amend this application as follows:

Page 2, line 14, change the period to a comma and insert as shown and described in Letters Patent No. 1,687,013, dated Detober 9th, 1928.

Page 4, lines 7 and 8, change "Figure 1" to "Figures

1 and 5".

Reconsideration of this application is requested.

The insertion of a reference to the Frederickson Patent To. 1687,013 will suffice for the discussion of this case, since it is more pertinent than is the Thomas Patent referred to by the Examiner. The tubular barrel portion of the bushing of Thomas is not contained within the cable armor, nor does its shoulder bear armirst the end of the armor, whereas that is the case with the Frederickson bushing to which pererence is made in the application.

It is submitted, however, that a rejection upon Casper and Frederickson (or Thomas), taken together, is not maintainable.
The only purpose of the Casper construction is to hold the ring ?



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on the EXAMINER in

Christ; & Christy, P. O. Box 950, Pittsburgh, Pa.

Applicant: James M.G. Fullman

lo. 295,550
July 26, 1925
Connector for Electrical Ser. No. Filed Conduits

This case has been examined.

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References made of record:-

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James M. G. Pullman,

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Improvement in

Connector for Electrical Conquite,

Filed July 26, 1928

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REFORE THE EXAMINER, DIVISION 60.

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It is submitted, however, that a rejection upon Casper and Frederickson (or Thomas), taken together, is not maintainable. The only purpose of the Casper construction is to hold the ring 7 from falling out, and he uses claws, which may or may not be integral with his bushing 4, simply as a matter of convenience in renufacture. In providing the fingers 9 integral with the conrecting

James M. C. Pallman - 2.

iteels, emplicant has the definite purpose, and has achieved a new result, of making the immilating bushing contained within the newtor visible to the electrical imprector, thus saving time and trouble. Specifically, Camper does not show even an armored cable, and of course has no insulating bushing with a tabular barrel portion contained within the cable armor, nor a shoulder bearing on the end of the armor.

or the other hand, Prederickeon dose not show or deseribe any commuter. He elearly contemplates the use of a connector, but does not show or describe any organized structure like that of applicant as defined in applicant's claims. In other words, Prederickeon left it open for other inventors to utilize his invention in connection with the securing of cables to outlet bonse, and applicant has supplied such a connection, which is of very desirable type and gives a new result.

For these reasons it is submitted that the claims are allowable.

The other extents sited by the Examiner are all relieved to be more remote.

For example, Freeman simply shows a bushing, the barrel portion of which is contained within the armor of a cable or conduit, while the flenge portion bears against the inner wall of the outlet box, the bushing itself acting as a connector, and hence there is no such combination as that defined by applicant,

Appleton shows and described another bushing, the flange of which rests against the inside of the outlet box with its barrel portion projecting outwardly, in this case within the connector 11, but not within the armor. The connector 11 does not enter the box at all and hence has no projecting fingers adapt-

James M. C. Pullman - 3.

ed to hold the bushing to place.

is the same as that of Appleton, and it is no nearer to applinent's combination.

The device of Gilbert is still more remote.

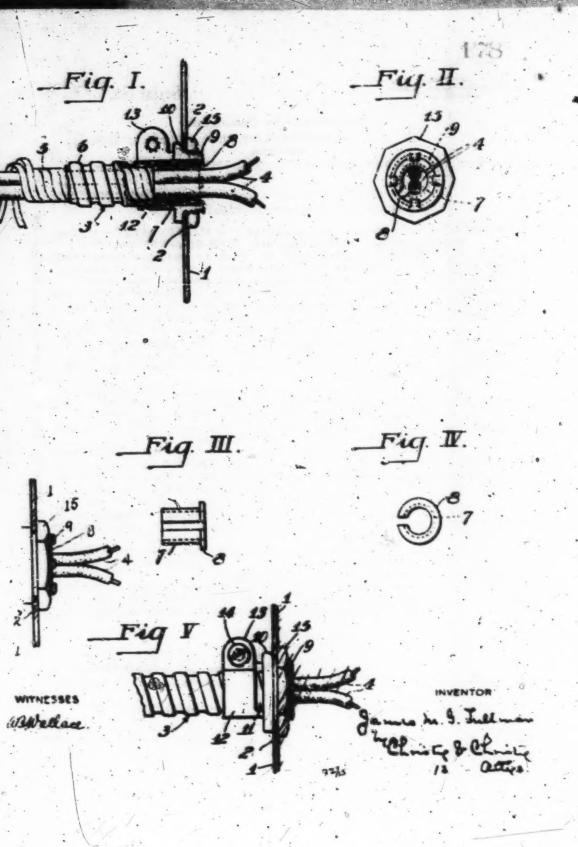
It is requested that the amendment to Figure 5 of the applicant's drawings be admitted. This only makes Figure 5 conform to Figures 1 and 2, and overcomes the Emminer's objection. It will be clearly seen on Figure 1 that a portion of the flange or shoulder of the bushing 8 projects beyond the edge of the nut 15, and thus this is visible from the side of the structure as well as from the end.

Yery respectfully,

Attorneys for Applicant.

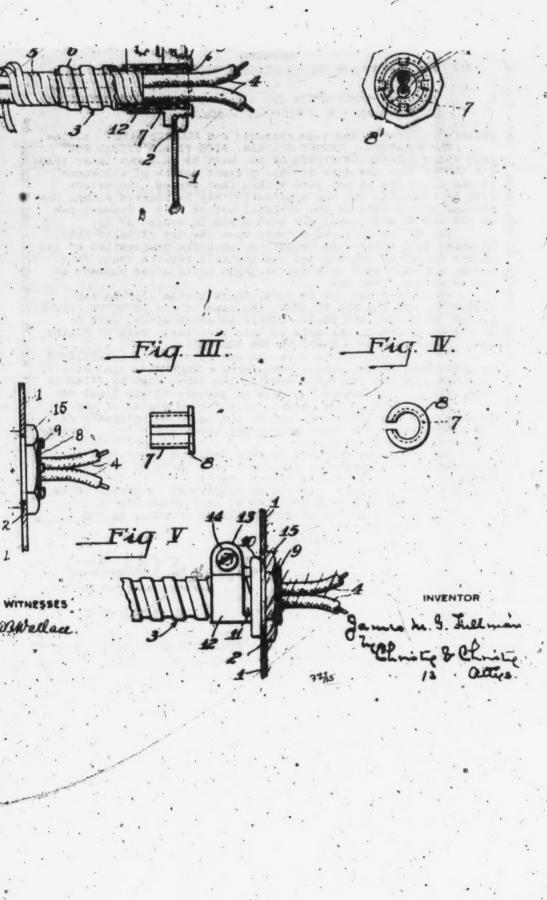
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Connector for Electrical Con Puly 26, 1928 Will the Patent Office draftenin kindly correct Figure 5 of the drawings of this application, changing that portion of it to the right of shoulder 10, as indicated in on the sheet of the print of the drawings enclosed heregith. Please place in the file a print of the drawings as originally filed. Also, olease send us a print of the drawing as amended. Charge the cost of this to the account of Christy, Wharton. very respectfully. EECEWEDIN DIV C PF+ 12 1928 Change on account for the above. Change, Chair & Whenhi RECEIVED IN DIV. C CORRECTION ORDERED AUG 29 1929 CORRECTED SEP 10 1000 50 Approved NOV \$ 1929



July 26, 1928 the Patent Office dreftsmen kindly correct Figure 5 of the drawings of this application, changing that portion of it to the right of shoulder 10, as indicated in m on the sheet of the print of the drawings enclosed herewith. Please place in the file a print of the drawings as originally filed. Also, blease send us a print of the drawing as amended. Charge the cost of this to the account of Christy, Christy & Wharton, Very respectfully. ECEIVED IN DIV OF: 12 1924 Change our account for the above. Chrita, Chritie & Wharlie RECEIVED IN DIV. C. CORRECTION ORDERED NUG 29 1929 CORRECTED SEP 19 1980 NOV & 1929 ACCOUNT

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DEPARTMENT OF COMMERCE UNITED STATES PATIENT OFFICE

June 2, 1930.

James M.G. Fullman, assor

Your APPLICATION for a patent for an IMPROVENENT in Connector for Electrical Conduits

filed July 20, 1920 has been examined and ALLOWED with 2 claims.

The final fee, TWENTY DOLLARS, WITH \$1 ADDITIONAL FOR

RACH CLAIM ALLOWED IN EXCESS OF 20, must be paid not later than

SIX MONTHS from the date of this present notice of allowance.

If the final fee be not paid within that perfod, the patent

will be withheld, but the application may be renewed within one
year after the date of the original notice with a renewal fee

of \$20 and \$1 additional for each claim in excess of 20.

The office delivers patents upon the day of their date,
on which date their term begins to run. The preparation of the

on which date their term begins to run. The preparation of the patent for final signing and sealing will require about four weeks, and such work will not be begun until after payment of the necessary final fee.

When the final fee is paid, there should also be sant.

When the final fee is paid, there should also be sent, DISTINCTLY AND PLAINLY WRITTEN, the name of the INVENTOR, TITLE OF THE INVENTION, AND SERIAL HUMBER AS ABOVE GIVEN, DATE OF ALLOWANCE (which is the date of this circular), DATE OF FILING, and, if applicated, the MANES OF THE ASSIGNEES.

If it is desired to have the patent issue to an ASSIGNEE OR ASSIGNEES, an assignment containing a REQUEST to that effect, together with the FEE for recording the same, must be filed in this office on or before the date of payment of the final fee.

After issue of the patent, uncertified copies of the drawings and specifications may be purchased at the price of TEN CENTS MACH. The money should accompany the order. Postage stamps will not be received.

The final fee will NOT be received from other than the applicant, his essignee or attorney, or a party in interest as shown by the records of the Patent Office.

MOTICE. WHEN THE NUMBER OF CLAIMS ALLOWED IS IN EXCESS OF 20, MO SUM LESS THAN \$20 PLUS \$1 ADDITIONAL FOR EACH CLAIM IN EXCESS OF TWENTY CAN BE ACCEPTED AS THE FIRAL FRE.

Respectfully,

P. C. Sox 950, Pittsburg., Pa. Anomas E. Roberton

NOTICE

Final Pee effective June 1, 1930. \$25, with \$1.00 additional for each claim in excess of 20.33/,6/

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July 8, 1930.

J. M. G. FULLMAN

1,769,947

COMMECTER FOR ELECTRICAL COMPUTYS Filed July 25, 1928

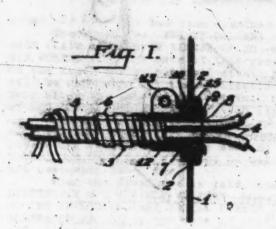


Fig. II.



Fig. III.

Fig. W.



Fig

3

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UNITED STATES PATENT OFFICE

JAMES M. G. FOLIMAN, OF EUWICKLEY, PRIMETLY SUIA. ASSIGNOR TO NATIONAL METAL MOLDING COMPANY, OF PRITEDUNCH, PRESERVANIA, A CORPORATION OF PERSONALIA

DERECTER FOR ELECTRICAL COMPUTES

sa Sied July 26, 1988. Serial No. 896,500.

In connecting electrical conduits and ar- fibrous material, such as paper, and the me-In connecting electrical conduits and armored cables to outlet boxes and other electrical fittings it is usual to cut away the conductors. When the edge of the duit wall or the shouth of the cable and to armor 6 has been cut away, the jacket 5 is a pass the unsheathed conductors into the box annound for a suitable distance and broken at for making the desired electrical connections. In the use of smetallic conduits, and the conductors within the armored cable particularly in the case of so-called flexible metallic armored table, this leaves a more there is slipped around the conductors the space there is slipped around the conductors the space which often split tubular bushing 7 formed of insulating abrades or cuts into the insulation on the exposed conductors, and is likely to cause terral shoulder 8 which bears against the exposed conductors, and is likely to cause short circuits and other injurious effects. In cut-away edge of the armor, leaving the exposed conductors from posed conductors 4 projecting therefrom. The connecter may be of a variety of suithas been proposed recently to provide a able forms, but for purposes of illustration bushing of insulating material which can be slipped over the exposed conductors where the armor is cut away, and having a shoulder ed portion 9 projecting through the opening in the outlet box, with the shoulder 10 learning against the sharp metallic edge of the armor, as shown and described in Letters Patent No. 1,687,013, dated October 9th, 1928. When such a bushing is used at the lipioint between an armored cable and an outlet box with connecters of the present usual binding screw 14, by means of which the binding screw 15 caused to pinch types, it is largely or altogether hidden with-in the connecter, so that its presence is not apparent to an inspector or other observer. The present invention provides an improved 20 connecter binding the cable to the outlet box, and having means for holding the insulating and protective bushing in place, which will permit the bushing to be visible, and thus permit ready inspection of the system.

In the accompanying drawings Figure 1 is a sectional elevation of an armored cable provided with an insulating bushing in its throat and joined to an outlet box by my improved connecter. Figure 2 is a front elevation of the structure shown in Figure 1. Figure 3 is a view of the bushing in eleva-tion, and Figure 4 is a front view thereof. Figure 5 is a view of the cable and connecter

in elevation, as shown in Figure 1.

The wall of the outlet box is designated by the numeral 1, and the usual outlet opening by the numeral 2. The flexible armored cable 3 herein shown is of the well known type. The conductors 4 have wound upon so them a jacket 5 of helically coiled strips of

The connecter may be of a variety of suitin the outlet box, with the shoulder 10 hear- 70 binding screw 14, by means of which the bi- 76 furcated barrel portion is caused to pinch the armored cable tightly. The connecter is held in place in the opening by means of the lock nut 15 screwed upon the threaded inner portion 9 and bearing aganist the inner so face of the wall of the box.

In order to retain the bushing in place in such a way that it will be visible to an observer, the connecter is provided at the inner edge of the portion 9 with a olurality of in 85 wardly projecting fingers which overhang and bear upon the outer face of the shoulder 8 of the bushing, preventing its displacement, while at the same time the bushing between the fingers is readily visible to an in- so spector or other observer. In fact, as shown in Figures 1 and 5, the shoulder of the bushing projects slightly beyond the side edge of the lock nut 15, so that it can be seen from the side as well as from the front. This is of #3 considerable practical advantage in the instaliation and inspection of electrical conduit systems of this type.

It will be understood that the specific form of the connecter may be varied, and it 100

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Name Similite Sales Corporation, a corporation

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brought upon the following patents;

PATENT NO. DATE OF PATENT PATENTEE

1 1,769,947 7/8/50 Bational Metal Moulding Co.

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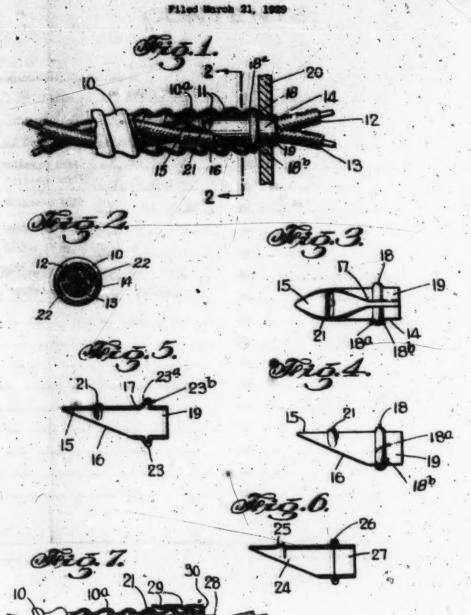
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Jan. 7, 1930.

E. J. SCHNEIDER ET AL

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INSULATION SHIELD FOR ELECTRIC WINING



UNITED STATES PATENT OFFICE

ICES TO BASTERN TUBE AND TOOL CO. INC., C. PROCELYN, NEW YORK, YORK AS OF WENT TO

> SULATION AND AD FOR BLACKWIN WINDOWS

that March 21, 1800. Serial To. States.

This invention relates to electric wiring of various kinds and classes and especially where two or more wires are arranged in and where two or more wires are arrang et of any kind o pered at it curely re within th neciator of d for the purpo .

pecified, which is simple in

arate parts of our improvement are designated by suitable reference characters in each of the views, and in which.

Fig. 1 is a diagrammatic, sectional view, illustrating one method of arranging a shield made according to the invention, within a metallic easing and between it and the wires contained therein.

Fig. 2 is a section on the line 2-2 of Fig. 1. Fig. 3 is a face view of the shield shown in Fig. 1, detached.

Fig. 4 is a side view of the shield shown

n Fig. 8.

Fig. 5 is a longitudinal, sectional view th a shield showing a slight modifica- es

Fig. 6 is a view similar to Fig. 5 showing

ar modification, and, g. 7 is a view similar to Fig. 1 showing r modification.

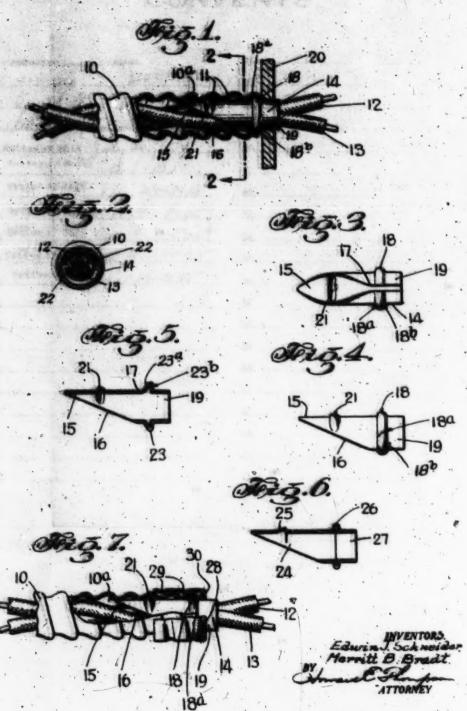
se 1 and 2 of the drawing, a conuctor or cable of the fexible armored type is shown to illustrate one use of the invention. In these figures, 10 represents a flexible metallic easing fashioned from a spirally wound strip of metal 10°, the side edges of which are fushioned to interlock adjacent windings as in conventional casings of this class, and this structure forms spiral recesses 11 on the inner surface of the casing. It will be underested at this time that the outer metal casing may be of any desired form and construction and may constitute a metal tube. Arranged in the casing 10 are two or more insulated conductors, two of which are shown in the accompanying drawing and are designated by the reference numerals 12 and 13. These conductors may be of any desired construction in so far as the insulation is concerned. hown to illustrate one use of the invention.

At 14, we have shown one of our improved insulator shields, which shield is shown in Figs. 1 to 4 inclusive, the same being made from inexpensive, flexible and yet firm in-

E. J. SCHNEIDER ET AL

INSULATION SHIELD FOR BLECTRIC WINING

Filed March 21, 1929



UNITED STATES PATENT OFFICE

ROWIN J. SOMMETORS, OF PARAMIA, AND MURRITY B. BRADT, OF BROOKLYN, WHY TO BASTREE TURE AND TOOL CO. THE, OF BROOKLYN, WAW YORK.

arete parts of our improvement are nated by suitable reference character

ording to the invention, within a sting and between it and the wires

Fig. 2 is a section on the line 9-2 of Fig. 1.
Fig. 2 is a face view of the shield shown of Fig. 1, detached.

Fig. 4 is a side view of the shield shown z. 8.

Fig. 5 is a longitudinal, sectional view rough a shield showing a slight medifica-

g. 6 is a view similar to Fig. 5 showing the modification, and, g. 7 is a view similar to Fig. 1 showing be modification.

Figs. 1 and 2 of the drawing, a con-r or cable of the flexible armored type was to illustrate one use of the invention. figures, 10 represents a flexible me-saing fashioned from a spirally wound f metal 10°, the side edges of which are sed to interlock adjacent windings as sentional casings of this class, and this conventional casings of this class, and this recture forces spiral recesses 11 on the investment of the casing. It will be undersed at this time that the outer metal cases may be of any desired form and construct many may constitute a metal tube. Arranged in the casing 10 are two or more intended conductors, two of which are shown the accommunity desired conductors. n the accompanying drawing and are designated by the reference numerals 12 and 13.

These conductors may be of any desired con-

paper board and so forth, one end portion of the shield being fashioned to form a pointed which the accompany- or pronged end 15, the side walls 16 of which ert, in which the sep-

a substituted for the ng from the bead re gradually onto up to the point 17,

shield. In

tapered

in the man-

while this type of ferrule may be employed, ing body having a tepered wall, where it will also be understood that non-metallic devices of this class may be used. It is also preferred that the outer surfaces of the ferrule be roughened or nuried to facilitate the of said casing to sid in retaining the shi attachment of the ferrule.

In the use of the device, the shield 14 is first placed in position between the combetors and the easing, after which the ferrule is applied and threaded upon the shield and the casing 10 as above stated, and the ferrule will operate to firmly draw the shield inward-

ly, as will be apparent.

It will be noted in considering Figs. 1 and 3 of the drawing, that the outside diameter of the shield or the enlargement thereof is within the boundaries of the diameter of the essing 10 so as not to introduce a projecting body. This will avoid the possibility of accidental displacement of the shield in handling the same, and will also facilitate the insertion of the cable into the knock out openings of terminal boxes of various kinds and

It will be understood that while we have shown a few forms of shields for earrying our invention into effect, and have illustrates particular use thereof, that our invents not necessarily limited to the specific tells of construction haven above and writed, nor to the universe other change in or sacrificing its advantages.

Having fully described our invention, what we claim as new and desire to secure by Letters Patent, is:

1. The combined

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form a prong end portion and the other end of mid body having a radially and outwardly projecting member, one wall of which is ta-pered in the direction of the prong end of the

6. An insulator shield for conductors of the class specified comprising a split tubular body, the walls of the split portion issing heveled and curved at one end of said budy to form a prong end portion and the other end of said body having a radially and entwardly projecting member, one wall of which is tapered in the direction of the prong end of the body, and the last named and of the body haven.

ly of the point 17, the shield is pro-as manufar body 18, the inner wall radually onto the cylin-uter wall 13° of which is a the latter being rical and projecting collar arranged sud enbetantially centre ad portion and at a p de of the shield to for pronged end portion and at a point opposite the split side of the shield to form a retaining member of said bead which will operate in the recesses 11 of one of the coils to aid in

with against displacement conductors of the class referr ment of the conductors 19 as 18 within the casing 10 forms at oppositions of the casing and therewithin valley passed designated by the reference name 22 note Fig. 2. In the use of the shield the rating 10 and around and 13, the curved and it the shield operate to find in its inwest

virtue of t

from the pointed and 15 to the point 17 where the shield is substantially cylindrical in form, being split longitudinally of its wall to parmit the approximate and contraction of the shield in the approximation of inserting it into whereas the other wall 22 is arranged at 70 the casing 10.

Outwardly of the point 17, the shield is pro-

ner wall. In Fig. 6 of the drawing, we have shown a cylin-another modification wherein the pronged which is and 24 of this shield has a freely flaxing tongue 75 art or lock shoulder 25 cut therefrom instead of the bead 21. The arrangement of the shoulder 25 is such as to permit the shield to or freely into the easing of a cable or to retain the shield against accidental displace-

In this construction, we have substituted for the annular beads 18 and 23 shown in the her figures, an annular bead 26 which is or of a flames and is fashioned by pressing the wall of the shield outwardly to form a sange of two-ply thickness which is adapted to butt against the outer edge of the easing 10 in the use of the shield. In the casing 10 in the use of the shield. In other words, the beveled wall and wedge-like action accomplished thereby as in the other figures, will not take place in this structure, it being understood, however, that the placement of the shield in the easing end around the shield in the easing end around ment of the shield in the easing and around the conductors, which normally fits snugly in the confuctors, which normally fits snugly in the coning, is sufficient to place the conductors under slight compression, but the degree of operation will not be as great as in the use of the tapered wall structure shown in Fig. 1 to 5 inclusive. The shield shown in Fig. 6 also includes an outwardly projecting collar 27 which forms the resulting collar and finger place as in the other structures.

In Fig. 7 of the drawing, we have shown another modification wherein a ferrule 28 of conventional form is employed in conjunction with a shield made according to the several disclassive being preferably employed, and like references will designate like parts with respect to said shield, which is designated at 14, and consists of the pronund and 15, tapered

ts of the pronged end 15, tapered at wardly projecting member or 115

citar 19.

sof a type having a screw ion 20 adapted to engage gad strips 10° in the manat upon a thread. The ition to meet the rule so as to provide shield against displace. crule has an inwardly In Fig. 5 of the drawing, we have shown a manher 18 to accomplish this result. It will ght modification of the structure shown in also be noted that the projecting collar as, 1 to 4 inclusive. In this figure, the serves to invulste conductors 12 and 18. It is decome characters 15, 16, 17, 19 and 21 will constomary to employ metallic forrules, and

In the use of the device, the shield 14 is first placed in position between the conduc-

In the use of the device, the shield 14 is first placed in position between the conductors and the casing, after which the ferrule is applied and threaded upon the shield and the casing 10 as above stated, and the ferrule will operate to firmly draw the shield inwardly, as will be apparent.

It will be noted in considering Figs. 1 and 2 of the drawing, that the outside diameter of the shield or the enlargement thereof is within the boundaries of the diameter of the casing 10 so as not to introduce a projecting body. This will avoid the possibility of accidental displacement of the shield in handling the same, and will also facilitate the insertion of the cable into the knock out openings of terminal boxes of various kinds and sertion of the cable into the knock out open-ings of terminal boxes of various kinds and

It will be understood that while we have shown a few forms of shields for carrying our invention into effect, and have illustrated one particular use thereof, that our invention is not necessarily limited to the specific deails of construction herein shown and described, nor to the uses herein set out, and various other changes in and modifications of the structure herein disclosed may be made within the scope of the appended claims without departing from the spirit of our invention or secrificing its advantages.

Having fully described our invention, what we claim as new and desire to secure by Let-

we claim as new and desire to secure by Let-

ters Patent, in:

1. The combination with insulated electric conductors arranged in an outer metallic casing, of a shield composed of insulating material adapted to be arranged between the insulated conductors and said easing, the end of the
shield inserted into the easing being of prong
formation and the outer end of the shield
comprising a split tube having an outwardly
extending body adapted to engage the end
portion of the casing to firmly retain the camductors within the casing and to insulate the
same therefrom, and said outwardly extending body having a tapered wall whereby said
shield may be wedged in position.

2. The combination with insulated electric
conductors arranged in an outer metallic casconductors arranged in an outer metallic cas-

conductors arranged in an outer metallic cas-ing, of a shield composed of insulating material adapted to be arranged between the insulated conductors and said easing, the end of the shield inserted into the casing being of prong formation and the outer end of the shield comprising a split tube having an outwardly extending body adapted to engage the end portion of the casing to firmly retain the conductors within the easing and to insulate the same therefrom, said outwardly extend-

while this type of ferrule may be exproyed, ing body having a tapered wall, whereby it will also be understood that non-metallic devices of this class may be used. It is also prongend of said body including an outward-preferred that the outer surfaces of the ferrule be roughened or nurled to facilitate the of said casing to aid in retaining the shield against displacement.

In the use of the device, the shield 14 is

The combination with insulated electric

and tapered from the pointed end thereof to said outwardly extending body.

5. An insulator shield for conductors of the class specified comprising a split tubular body, the walls of the split portion being bev-eled and curved at one and of said body to form a prong end portion and the other end of said body having a radially and cutwardly projecting member, one wall of which is ta-pered in the direction of the prong end of the body.

6. An insulator shield for conductors of

6. An insulator shield for conductors of the class specified comprising a split tubular body, the walls of the split portion being beveled and curved at one end of said body to form a prong end portion and the other end of said body having a radially and outwardly projecting member, one wall of which is ta-

pered in the direction of the prong end of the body, and the last named end of the body having a collar arranged outwardly of said mem-

7: An insulator shield for conductors of the class specified comprising a split tubular 188 body, the walls of the split portion being beyeled and curved at one end of said body to form a prong end portion and the other end of said body having a radially and outwardly projecting member, one wall of which is 190

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mony that we claim the foregoing as tion we have signed our names this 18th day of March, 192

FOWIN J. SCHNEIDER.
MERRITT B. BRADT.

DEFENDANT'S EXHIBIT B

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UNITED STATES PATENT OFFICE

THE RESIDENCE OF THE ADDRESS OF THE PARTY OF

INCULATED COUNTY,

Application that April 4, 1888. South the 198,004.

This investion relates to couplings of various filles also used in receiving to consider of this also used in receiving to consider a strong with the strong and the file and the object of the investion is to provide a coupling of conventional or any decision of the coupling of conventional or any decision and constraint coupled theoreth in constraint and constraint coupled theoreth in constraint or any decision of and so as to provide an including for the coupling of the conductors or view where they extend as through the coupling; a further object and through the coupling; a further object with the conductors of specific as married the conductors and the other set posters and the other set posters and the other set posters of the conductors of the conductors project to the amount of the chief of form as insulated and reinforced and provide a shall of the compling operates to provide a shall of the compling point with respect to the amount and reinforced and provide a shall of the compling point to the amount of the

use, and which is constructed as hereinafter described and claimed.

The important is fully displaced in the fol-

Fig. 2 is an anlarged sectional view of a part of the countration shown in Fig. 1.

Fig. 3 is an end view of the strature of

Fig. 4 to a view similar to Fig. 2 showing

Place in an and view of the structure shows

Fig. 6 is a view similar to Fig. 1 showing saly a part of the construction and thorning

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The other end portion is in the form of a 73 split ring or caller 16, one side will 16s of which is severed as seen at 17 to permit it to yield forming a clamp of said ring which may be gripped about the cable by the tightening of a screw 16 which is in threaded sugage- so ment with one wing 19 of the collar 16 and passes losesly through another wing 19a. This coupling is of conventional form and is adapted to pass through one of the knock out apertures 10s of the box 10 and is secured as thereto by the nut 13 and flange 14 as seen in Fig. 1 of the drawing.

Fig. 1 of the drawing.

In carrying our invention into effect, we employ in conjunction with the coupling, an insulator shield 20 and the brief description so

E. J. SCHNEIDER ET AL

UNITED STATES PATENT OFFICE

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THE REAL PROPERTY.

Application Std Arest A. 1923. Section 12, 414-14.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of our improvement are designated by suitable reference characters in each of the views, and in which:—

Fig. 1 is a sectional view showing one form of coupling with one of our improved insulator shields arranged therein and illustrating one method of its use. The same of the sa

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The other and parties is in the form of a split ring or seller 16, one side will 16s of which is severed as seen at 17 to people it to yield feeming a shamp of said ring which may be gripped about the sable by the tightening of a server 18 which is in threaded engagement with one wing 19 of the coller 16 and passes lossely through each of the coller 16 and passes lossely through one of the knock out apprehens 10s of the box 10 and is secured thereto by the set 18 and flange 14 as seen in Fig. 1 of the drawing.

In carrying our invention into effect, we employ in conjunction with the coupling, an insulator shield 90 and the brief description of this shield will apply to the shield shown in the other figures. The shield 90 is in the general form of a split tubular body, the split being indicated at 21 and the walls of the split portion at one end thereof being beveled and tapered as seen at 22 and terminate in a pointed or pronged end 93 which facilitates the placement of the shield in the armored cable as later described.

The other end portion of the shield is fash-

It will be understood that the insulate shield may be made of any suitable materix preferably of a relatively stiff and spring

Having fully described our investion, what we thim as now and desire to secure by Letter Patent, is:

1. The combination with a metallic tube

g at one end an inwardly and padially ged flange, of a split tubular insulator ged in the bore of said tube, see end m of the insulator having spaced outend of the

hed compris of mid body of prong formation and the other end substantially circular in cross sectional and provided with longitudinally d outwardly and radially projecting

The combination with a coupling used curing the end portion of armoved cable a outlet box or the like, of an invulating he against accidental displacement from coupling so as to constitute a unit part self, one end portion of said shield being rong formation, facilitating its insertion the easing of armoved cable arranged in the coupling.

ombination with an insulator shield g a split tubular body, one end which is fashioned to form spaced, ardly and radially project on which is an annular rec n the recess of said gainst displacement other old portion

prompt. dy composed of d portion of said. orm spaced outwhich is a r which is a recess, the diameter of the comportion of the shield being substantily similar to the diameter of the shield adopt the innermost projecting portion, and sother end of the shield being of prong

suffed may be made within the scope of the appended claims without departing from the open of our invention or merificing its administration of the spirit profition of the shield being cut away to form of the other end portion of the shield being cut away to form of the other end portion of the shield, a prong.

7. An insulator chield of the class described

outwardly and reuse ed to form imilar to the di alls of the split portion of t away to form of the et e shield, a prong, and the onctional form

In testimony that we claim the foregoing our invention we have signed our names as our inventi-

this 2nd day of April, 1930. EDWIN J. SCHNEIDER. MERRITT B. BRA J.

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have illus-our inven-n these rein and modificapresident craims without departing from the

Having fully described our invention, what

with a metallic tube

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ardly and radially proje

m with a couplin o of are

with an insulator street tabular body, one end plator shield sed to form s

ardly exte

er end portion g a split tubular body o on of said

ed outby similar to the diameter of the shield ad-tent the innermost projecting portion, and sother end of the shield being of prong

6. An insulator shield of the class described prising a split tubular body composed insulating material, one end portion of d body being fashioned to form spaced wardly and radially projecting portions sen which is a recess, the diameter of the portion of the shield being substantial the walls of the split portion of the shield being cut away to form of the other end por-tion of the shield, a prong. ald, a pro

at we claim the foregoing this 2nd day of April, 192

EDWIN J. SCHNEIDER. MERRITT B. BRADT.

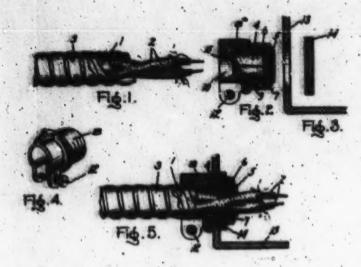
May 10, 1932.

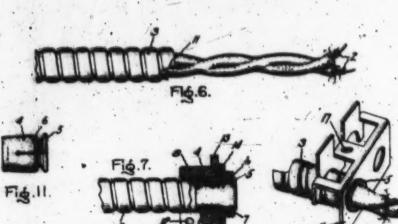
H. G. KNODERER

1,857,197

INCULATED COMMECTER POR COTLET BORES,

Filed Jan. 26, 1929









Inventor

PATENT OFFICE

May 10, 1932

H. G. KNODERE

1,857,197

INSULATED COMMECTED FOR OUTLAND BOXES

11od Jan. 28, 1999







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Fig.11:

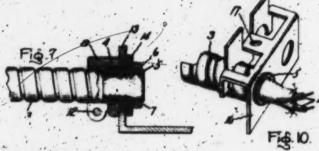




Fig. 8.



Fig. 9

Homer G. Knoderer, by Charles & Tullar
. His Attorney

UNITED STATES PATENT OFFICE

CHIPART, A CHIPGRASSINE OF HEW YORK

- INDICATED COMPANY DOE OFFICE DOES

Application that General St. com. Social No. on con-

My invention relates to an improved our breation of elements of elitity in mounts or the street of t

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A further digit of my inventor in to provide a companion which sell promit as a companion with the sell promit as a companion of the sell promit as a companion of the sell provide as a compan

A faither object of any invention is to provide an aurenteement which when the intelliation is completed will enable on inventor readily to defend whether or not the intelligion has been proporty and

A further eight of my formation is a provide a simple and magnet around the property of the back in the property of the back in the same of the back in the same of the same o

While my invention is particularly undul in connection with armored conductors, it is

My investigation with the best representation of the few countries with the few countries with the few countries with the few countries and the few countries with the few countries wi

The forcing to the determine, Fig. 1 is a mine of a sure of the part broken rough, of an area of a part broken rough, of an area of a sure of the construction of the construction with the region and making broken of the construction with my immediating broken and the construction of a junction bear and making on a fig. 1 is a manufacture of the construction with the construction with the construction of the construction with the construction of the construction

As is well known, the name of accumulations and the degible metallic mobile contains and the degible metallic m

I products make the impleting broking in the form of a split tube of flow or other militate material pro-

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the connecter has been elemped to the ave the threaded end of the connecter 8 is ente through the hole in the outlet bex wall 13 other wall through which the wires are to tlet box wall 13, or the wires are to be led, and the o by the nut 14 an in

It will be at from injury of the bushing is in a 10 7. It w armor is proj knows at open ti done. This is a fee portance since if the the contractor would be put pector to ing was p mble a few o es in the connecter and the wire be shipped in a died as a unit by the wireman the wireman does not need to exercise the thought and care which would be necessary if separate bushings were used which he would have to remember to insert between the wires and the armor before securing the armor in the connecter. It will be observed that the sleeve of the bushing projects within the connecter and is protected by the connecter so that it will not be damaged by the handling and boxing and shipment of the assembled units comprising the connecters and bushings.

Fig. 6 represents another form of armored t by the wir dled as a m

Fig. 6 represents another form of armored conductor which omits the wrapping 1 of the armored conductor shown in Fig. 1. This figure also indicates at 11 the sharp corner which costomarily results when the armor is cut with a hack saw as heretofore described.

While my invention is of particular utility in connection with armored conductors, it may also be advantageously used with fiexible metallic conduits into which the wires are drawn after the conduit installation has a conduction. been made. Fig. 7 shows such an application of my invention.

nown connecter. Fig. 10 illustrates a mornied arrangement for clamping armored con-lectors in an outlet box. In this case the member 16 is mounted inside the outlet box and when the screw passing through the hole 17 is forced down the member 16 is tilted and clampe the armer 3 in the box. With this type of clamp my bushing 4 may also be used and shipped with the clamping member as a unit. It will thus be seen that my improved arrangement is applicable to many t my im-

as a unit. It will thus be seen that my improved arrangement is applicable to many different kinds and types of connecters.

While I at present prefer to use a bushing which is split throughout its length, it is apparent that it is within the scope of my tavention to use a bushing which is split or cut through a pertion only of its length, as indicated in Fig. 11, the split portion being at the end upon which the shoulders 5 and 6 are provided. Such a bushing may be either innerted into the connecter from the seed erted into the connecter from the end opposite the restricted portion or may be in-sorted from the restricted end of the bushing if the bushing is suitably thered, as indi-ented in Fig. 11, so that the uncut portion will ss through the restricted portion of the

What I claim as now and desire to secure by

What I claim as new and desire to secure by
Letters Patent of the United States, is:

1. The combination with an armored electrical conductor and an outlet box, of a connector provided with means for securing it to the armored conductor and to the outlet box and an insulating bushing comprising a split cylindrical sleeve located between the armored and conductors and provided with means for attaching it to said connector the parts being constructed and proportioned so that when constructed and proportioned so that when the securing means is operative to connect the armored conductor to the connecter the bushing will be located properly to protect and in-sulate the conductors from the armor and con-

necter.

2. The combination with an insulator shield comprising a split tubular body, one end portion of which is fashioned to form spaced, outwardly and radially projecting members between which is an annular recess, of a tubular metallic body, one end portion of which is provided with an inwardly extending flange adapted to seat in the recess of said shield to retain the tube against displacement from the shield.

3. The combination with a tubular body having an inwardly and radially directed wall, of a shield of insulating material arwall, of a shield of insulating material arranged in the bore of said body, and means on said shield adapted to be arranged at opposite sides of said wall for retaining said shield against displacement from said body.

4. In combination with an insulated electric conductor and a sheathing therefor, said conductor having an end portion projecting outwardly from an end of said sheathing, of a compling adapted to connect said conductor.

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Defendants' Exhibit D.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

THE THOMAS & BETTS Co., a corporation, and NATIONAL ELECTRIC PRODUCTS Corporation, a corporation,

Plaintiffs,

VS

ELECTRICAL FITTINGS CORPORATION, a corporation, Joselson Sales Corporation, a corporation, and Samuel Joselson and Belle Joselson, individuals,

Defendants.

Equity No. 81/229.

U. S. Letters Patent Fullman 1.769.947.

PLAINTIFFS' ANSWERS TO INTERROGATORIES.

For answer to the interrogatories propounded by the defendants in this cause, plaintiffs, by Adnah McMurtra, Secretary of The Thomas & Betts Co., state as follows:

1. At one time or another, as will hereinafter more full appear, licenses under the patent in suit were granted a each of the companies referred to in interrogatory No. 1

In answer to interrogatories 2a, 2b, 3a and 3b, affiait states as follows:

2. The licenses granted, respectively, to the companies named in interrogatory No. 1, were each prepared in printed pamphlet form similar to that executed on February 8, 1932, by and between The Thomas & Betts Complaintiff-licensor, and The Sterling Manufacturing Company, licensee, of Connecticut, a printed conformed copy of which is attached hereto and made a part hereof.

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3. The license to Sterling Manufacturing Company was cancelled as of May 10, 1933, by a letter from The Thomas & Betts Co., to Sterling Manufacturing Company dated May 9, 1933, in form and words as follows:

May 9, 1933

Sterling Manufacturing Co., Stratford, Conn.

Gentlemen:

Under date of April 28, 1933, we notified you by registered mail as follows:

"In accordance with section ten (10) paragraph (a) of your license under U. S. Letters Patent Nos. 1,184,161, 1,769,947 and 1,810,958, you are hereby notified that you have not complied with section four (4) and/or section eight (8) of said license; and we hereby now notify you that payment of royalties, including minimum quarterly royalty, must be made within ten (10) days from the date of mailing of this notice."

Since ten (10) days have elapsed since the sending of this notice and you have not corrected your default, we hereby notify you that your license is terminated as of May 10, 1933, in accordance with section ten (10) paragraph (a) of the license agreement.

Yours very truly,

THE THOMAS & BETTS Co.
GEORGE C. THOMAS, JR.
General Manager

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GCTJr/C

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- 4. The license granted to the Appleton Electric Company, a corporation of Illinois, having its principal place of business at Chicago, Illinois, was executed March 18, 1932, by The Thomas & Betts Co., plaintiff-licensor, and Appleton Electric Co. licensee, and is, in every respect identically the same as the printed copy of the Sterling license, attached hereto. This Appleton license is still in force.
- 5. The license granted to the Steel City Electric Co. a corporation of Pennsylvania, having its principal place of business at Pittsburgh, Pennsylvania, was executed January 26, 1932, by The Thomas & Betts Co., plaintiff licensor, and Steel City Electric Co., licensee, and is, in every respect, identically the same as the printed copy of the Sterling license, attached hereto. This Steel City is cense is still in force.

On April 18, 1932, The Thomas & Betts Co. wrote Stee City Electric Co. in form and words as follows:

April 18, 193

Steel City Electric Co., 1207 Columbus Ave., Pittsburgh, Pa.

694

Attention: Mr. J. R. Richards, Sales Manager

Gentlemen:

Pursuant to license under connector patents granded by us to you on January 26, 1932, we consent, su ject to withdrawal on written notice, that you make the your connectors manufactured by The Sterling Manufacturing Co., Stratford, Conn.

Yours very truly,

THE THOMAS & BETTS Co.

A. McMURTRIE Secreta

AMcM/C

On May 12, 1933, The Thomas & Betts Co. wrote Steel City Electric Co. in form and words as follows:

May 12, 1933

Mr. J. R. Richards, Steel City Electric Co., 1207 Columbus Ave., Pittsburgh, Pa.

Dear Mr. Richards:

Under date of April 18, 1932, we wrote you as follows:

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"Pursuant to license under connector patents granted by us to you on January 26, 1932, we consent, subject to withdrawal on written notice, that you may have your connectors manufactured by Sterling Manufacturing Co., Stratford, Conn."

We hereby withdraw our consent to your having your connectors manufactured by Sterling Manufacturing Co., Stratford, Conn., owing to the fact that we have canceled the license of the Sterling Manufacturing Co.

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Yours very truly,

THE THOMAS & BETTS Co.
GEORGE C. THOMAS, JR.
General Manager.

GCTJr/C

6. The license granted to Conduit Fittings Corporation, a corporation of Illinois, having its principal place of business at Chicago, Illinois, was executed February 1, 1935, by The Thomas & Betts Co., plaintiff-licensor, and Conduit Fittings Corporation, licensee, and is, in every respect, identically the same as the printed copy of the Sterling license, attached hereto, except for the follow-

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ing amendments, all of which were made therein prior to

Page 5, lines 18 and 19, the date 'February 1, 1955," was inserted.

Page 7, paragraph (a) line 5, "ten (10)" was changed to —sixty (60)—.

Page 8, paragraph (c) line 2, the words "either the licensor or" were cancelled.

Page 9, lines 7 to 12, the sentence "In the event of termination an infringement thereof" was cancelled.

This Conduit Fittings license is still in force.

7. The license granted to Chicago Steel Tank Co., a conporation of Illinois, having its principal place of business at Chicago, Illinois, was executed January 26, 1932 by The Thomas & Betts Co., plaintiff-licensor, and Chicago Steel Tank Co., licensee, and is in every respective identically the same as the printed copy of the Sterlin license, attached hereto.

The license of Chicago Steel Tank Co. was cancelled a of May 10, 1933, by a letter from The Thomas & Bett Co. to Chicago Steel Tank Co. dated May 9, 1933, in for

and words as follows:

May 9, 193

Chicago Steel Tank Co., 640 W. 66th St., Chicago, Ill.,

Gentlemen:

Under date of April 28, 1933, we notified you by registered mail as follows:

"In accordance with section ten (10) paragraph (a) of your license under U. S. Letters Patent No. 1,184,161, 1,769,947 and 1,810,958, you are hereby notified that you have not complied with section four (4) and/or section eight (8) of said license; and we hereby now notify you that payment of royalties, including minimum quarterly royalty, must be made within ten (10) days from the date of mailing of this notice."

Since ten (10) days have elapsed since the sending of this notice and you have not corrected your default, we hereby notify you that your license is terminated as of May 10, 1933, in accordance with section ten (10) paragraph (a) of the license agreement.

632

Yours very truly,

THE THOMAS & BETTS Co.
GEORGE C. THOMAS, JR.
General Manager.

GCTJr/C

8. Further affiant sayeth not.

THE THOMAS & BETTS CO.
By (sgd.) ADNAH McMURTRIE,
ADNAH McMURTRIE,
Secretary.

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County of Union, state of New Jersey

On this 13th day of April, 1936, before me personally ppeared Adnah McMurtrie of The Thomas & Betts Co., nown to me and who signed the foregoing answers to interrogatories in my presence and swore that the answers were true to the best of his knowledge and belief.

(sgd.) Fred W. Voll, Jr., Notary Public.

Seal)

COPY

Form F 26999-1-32-2C

THE THOMAS & BETTS Co.

Licensor

with

THE STERLING Mrg. Co.

Licensee

LICENSE FOR CABLE CONNECTORS

U. S. Letters Patent No. 1,184,161—May 23, 1916

U. S. Letters Patent No. 1,769,947—July 8, 1930
 U. S. Letters Patent No. 1,810,958—June 23, 1931

Cancelled May 10, 1933

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State of New Jersey by and between The Thomas & Betts Co., a corporation duly organized and existing under the laws of the State of New Jersey and having a place of business in the City of Elizabeth and State of New Jersey, hereinafter called the Licensor, and Test Sterling Mfg. Co., a corporation duly organized and existing under the laws of the State of Connecticut, and having its principal place of business at Stratford, State of Conn., hereinafter called the Licensee.

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WITNESSETH, that

Whereas, the Licensor owns or controls Letters Patent of the United States No. 1,184,161 for Connectors for Electrical Conduit granted to Hobart D. Betts, May 23, 1916 and No. 1,810,958 for Armored Cable Connector Fitting granted to J. M. G. Fullman, June 23, 1931 and No. 1,769,947 for Connector for Electrical Conduits granted to J. M. G. Fullman, July 8, 1930, and

Whereas, the Licensee desires to secure, and the Licensor desires to grant, a license under said patent, limited as hereinafter provided:

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Now, THEREFORE, for and in consideration of the premises, and further in consideration of the agreements of the respective parties herein set forth, the Licensor and the Licensee have agreed, and do hereby agree as follows:

1. The Licensor hereby grants and agrees to grant to the Licensee a license to manufacture and sell connectors embodying the improvements and inventions hereinafter referred to as connectors covered by the above identified Letters Patent throughout the United States, its territories, possessions and dependencies, and to sell such Connectors manufactured by it within the United States for export except that no sales shall be made for export to the Dominion of Canada or Colony of Newfoundland.

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2. The Licensee hereby acknowledges the validity, of Letters Patent No. 1,184,161—1,810,958 and 1,769,947 and agrees that it will not contest or aid others in contesting he validity thereof.

3. This license is personal to the Licensee, non-exclusive and indivisible, and non-transferable by the Licensee other by operation of law or otherwise, without the written consent of the Licensee, and should the Licensee

change its name, consolidate with any other company, or abandon or sell or assign its business relating to such Connectors, or be adjudged a bankrupt, or go into liquidation or dissolution, or should a receiver of the business of the Licensee be appointed and not be discharged with in ninety (90) days from the date of his appointment then, unless the Licensor shall otherwise specifically agree in writing, the license hereby granted shall automatically terminate and be of no further effect, as of the date of such change of name, consolidation, abandonment, said assignment, bankruptcy, liquidation or dissolution, or, it case of receivership, upon the expiration of said ninety (90) day period.

4. The Licensee covenants and agrees to pay to the Li censor, or to the order of the Licensor five per cent. (5%) of all sales of such Connectors made hereunder, calculate on the basis of net selling prices of complete connected to the customers of the Licensee. Such payment of roys ties shall be made by the Licensee to the Licensor on # before the twentieth day of the next succeeding calends month after each quarter during the continuance of the agreement. This quarterly payment is to include the ref alty on all saies, and goods, for the purpose of deter mining royalty due hereunder, shall be considered to be sold when billed out, or if not billed out, when delivered or when paid for if paid for before delivery. Each quarterly payment is to be accompa. I by a verified state- a ment from the Licensee to the Licensor setting forth the re number of pieces of each size and type of Connectors sed s during the preceding quarter and the net selling prices the thereof.

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5. The Licensee agrees that it will offer for sale and sell the Connectors covered by this license only at such the

ninimum prices and on such terms and conditions and n such manner, whether on consignment or not and whether directly or through ugents, or both, and if brough agents, or both, only pursuant to such form of igents' agreement, as may from time to time be fixed, dopted and followed by the Licensor. The Licensor shall end to the Licensee by registered mail a nef price sheet or Connectors, showing such net selling prices, terms, conditions and manner of sale and stating the date on which such prices, terms and conditions and manner of ale shall become effective. After that date the Licensor and Licensee shall not offer for sale or sell Connectors it lower prices and/or upon terms or conditions or in manner other than those so fixed by the price sheet. Whenever a change is made by the Licensor in the sellng prices or terms or conditions of the price sheet, or n the monner of selling, the Licensor shall send to the icensee by registered mail or by telegraph notice of such changes, stating the date when such changes shall beome effective. After the date so fixed the Licensor and icensee shall not offer for sale or sell Connectors at ower prices and/or upon terms or conditions, or in a nanner or under a form of agreement with agents, which ary in any manner from those so fixed.

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6. The Licensor and the Licensee further covenant, and gree that neither of them will directly or indirectly grant my rebates, split any commissions, and or give any secret efunds, concessions, or inducements of any kind with repect to Connectors or other articles which would have he effect of reducing the selling prices, changing the ates of settlement or changing or increasing the disjounts or changing the terms or conditions of sale, or hange the manner of selling, from time to time fixed by the Licenson. The Licenson and Licensee also agree that

they will not grant long term credits, give extended datings, allow cash settlement discounts on notes or trade acceptances from purchasers or otherwise.

7. The Licensor may at any time or times at its option send by registered mail to the Licensee a list or lists of approved purchasers of Connectors and stating the date on which such list or lists shall be deemed to tak: effect. The Licensor may thereafter from time to time add or remove names from such list of approved purchasers, and in any of such events the Licensor shall notify the Licensee by registered mail of such additions, or removals, stating the date when same shall take effect. The Licensor and Licensee covenant and agree that they will offer for sale or sell Connectors only to persons whose names shall at the time appear on said list or lists and to such persons only in accordance with the preceding two paragraphs. The Licensor may at any time or times and from time to time cancel and/or withdraw said lists is whole or in part by sending by registered mail notice of such whole or partial cancellation, and/or withdrawal to the Licensee. Subsequent to any such total or partial with drawal and/or cancellation the Licensor may from time to time and at any time or times reinstate said lists is whole or in part.

8. The Licensee hereby covenants and agrees to pay a minimum royalty of One Hundred and Fifty (\$150.00 Dollars for each calendar quarter, and if the total sum of royalty for any quarter shall not amount to One Handred and Fifty (\$150.00) Dollars when computed in accordance herewith, said Licensee shall pay to the Licensor, in addition to the computed payments for successor, the difference between the total amount of royal ties shown to be due by the quarterly statement and One

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Hundred and Fifty (\$150.00) Dollars. This computation shall start with the First day of March, 1932.

9. It is the essence of this license that Connectors manufactured and/or sold hereunder shall be manufactured by the Licensor or by the Licensee and also at the option of, and if so authorized by the Licensor in writing, by others under and in compliance with the terms of a license from the Licensor and shall as to size, quality, workmanship, material, tagging, marking, labeling and in all other respects comply with the standards, requirements and specifications hereinafter referred to. The Licensee covenants and agrees that all Connectors manufactured and/or sold by it under this license shall in all respects meet and comply with the requirements, standards and specifications from time to time established and followed by the Licensor and from time to time seat to the Licensee by the Licensor by registered mail and that all sales made by the Licensee, its employees, agents and representatives shall be billed directly from the principal place of business of the Licensee. The Licensee agrees to keep, at its principal place of business, accurate records, in form satisfactory to the Licensor, of its manufacture, shipment and sale of all Connectors made by it. which records shall show the specifications followed in such manufacture, the total of each separate type and size manufactured and/or sold, the selling prices thereof, the terms and conditions of sale thereof and the payments therefor. The Licensor may appoint a Technical Committee which may consist of one or more persons, any or all of whom may or may not be employed by the Licensor. The records of the Licensee above referred to, which shall be sufficient to permit of the full examination of all transactions in Connectors from the original order to and including final delivery and payment including all expenses

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of sale, including any and all books of account and other books of the Licensee required by the Technical Committee and/or any member or members thereof relating to Connectors, be open to inspection and the making of copies and/or extracts therefrom at all reasonable times by the above mentioned Technical Committee and/or any member or members thereof and/or by a certified public accountant approved by the Licensor. The Technical Committee and/or any member or members thereof shall at all reasonable times be permitted by the Licensee to have access to the stock room and/or other places of storage of the Licensee for the purpose of examining and inspecing all Connectors manufactured by the Licensee here under, and shall have the right to take samples thereof, in such amount as it sees fit, upon payment therefor is cash at the current price thereof. Objections, if any, d the Licensee to having its books and records examined and/or its stock or storage rooms visited by employee of the Licensor shall not apply to or be valid as to an member or members of the Technical Committee, or any accountant not employed by the Licensor except in connection with the Technical Committee hereunder or simlar technical committees.

10. This license may be terminated and cancelled by any of the following methods which are independent and separate:

a. If the Licensee shall fail to keep, or performany of its covenants or agreements in any paragraph of this license contained, then the Licenset may notify the Licensee thereof by registered mail or telegraph and if at the end of ten (10) days from the sending of such notice the Licensee has not corrected its default or breach to the satisfaction of the

Licensor, then the Licensor shall have the right to terminate the license hereby granted by sending notice by registered mail or telegraph to the Licensee setting forth therein the date of termination of the license, which may be any date subsequent to the sending of such notice and the Licensee agrees that the license shall end and be considered terminated as of the date so fixed.

b. If the Technical Committee shall report to the Licensor that the Licensee has failed to keep or perform any of its agreements contained in paragraphs numbered 6, 7, 8 and 10 hereof, this license may be forthwith terminated by the Licensor upon not less than thirty (30) days' notice sent to the Licensee by registered mail or telegraph setting forth therein the date of termination of the license and the Licensee agrees that the license shall end and be considered terminated as of the date set forth in such notice.

e. This license may also be cancelled and terminated by either the Licensor or the Licensee on not less than sixty days' notice sent by registered mail or telegraph to the other party hereto setting forth therein the date of termination of the license and the Licensor and Licensee agree that the license shall end and be considered terminated as of the date set forth in such notice.

If within sixty days after cancellation or termination of this license under the foregoing provision, the Licensee shall apply for a new license the Licensor shall accept such application. It is understood, however, that upon the issuance of such renewal license the Licensee shall pay to the Licensor the sum of One Thousand (\$1,000.) Dollars.

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MICROCARD 22 TRADE MARK (R)



MICROCARD EDITIONS, INC.

PUBLISHER OF ORIGINAL AND REPRINT MATERIALS ON MICROCARD AND MICROFICHES 901 TWENTY-SIXTH STREET, N.W. WASHINGTON, D.C. 20037, PHONE (202) 333-6393







11. Any failure of the Licensor to terminate this license, after learning of a breach of any of the provisions hereof by the Licensee, shall not be deemed to constitute laches or create an estoppel on the part of the Licensor and shall not constitute a waiver of any rights of the Licensor hereunder, and any waiver by the Licensor of any breach of the provisions hereof by the Liconsec, every such waiver being hereby required to be in writing, shall not be or be considered a precedent or binding upon the Licensor as to any other prior or subsequent breaches, nor shall the acceptance of royalty parments after breach or notice of termination preclude the exercise of any right of the Licensor hereunder termination of this agreement, either by cancellation or otherwise, shall not release the Licensee of any obligations accrued hereunder to the date such termination becomes effective, either for payment of royalties or other wise. In the event of any termination of this license, the Licensee shall not be estopped by the execution of this agreement, or by any act done hereunder, to contest the validity of the aforesaid Letters Patent, or to deny the any of its acts constitute an infringement thereof,

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12. Except as herein provided, this a treement shall continue to the full end of the term of United States Letters Patent, Nos. 1,184,161, 1,810,958 and 1,769,947 or any one of them which shall last expire; provided, however, that if said patents or any one of them or any provision of this agreement shall be declared invalid by a court of last resort, or by any court from the decision of which an appeal is not taken within the time provided by law, then and in such event, this agreement shall be deemed to have been determined as to the portion thereof which relates to the patent or the provision of this agreement invalidated by such judicial decision but the agreement

shall in all other respects remain in force. The Licensor may by notice in writing extend this license to include other patents and/or applications for patents relating to Connectors in which event the Licensee agrees to be bound in all respects with regard thereto by this license, but in the absence of such written notice this license shall not apply to or be deemed to include any other patents or applications for patents.

In witness whereof, the parties hereto have caused their respective seals to be affixed and these presents to be signed, by their respective officers thereunto duly authorized, this 8th day of February, 1932.

662

THE THOMAS & BETTS Co. (signed) By George C. Thomas, Jr.

Attest:

(signed) Adnah McMuatrie Sec'y

Seal of The Thomas & Betts Co.

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THE STEELING MFG. Co.

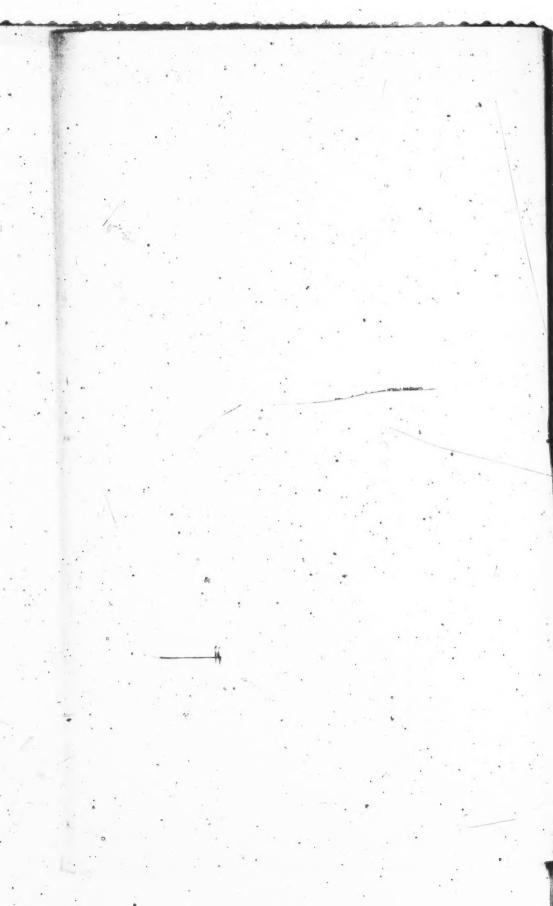
By W. E. Eccles,

Pres.

Attest:

(signed) CHARLES D. WATERHOUSE, Sec'y

Seal of The Sterling Mfg. Co.



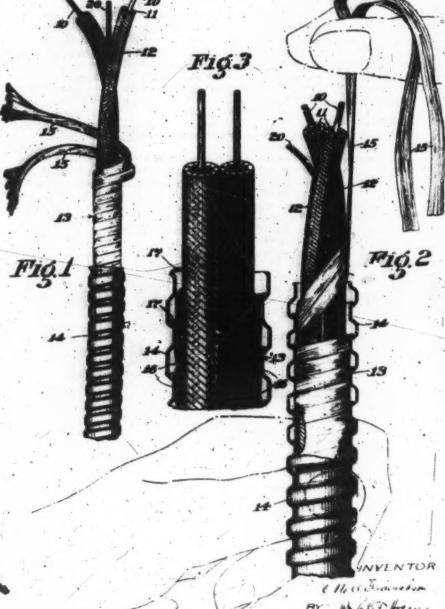
Oct. 9, 1928.

1,687,013

. FREDERICKSON

ARMORED ELECTRIC CABLE

Filed Dec. 7, 1927



BY What Thems

ATTORNEY

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Oct. 9, 1928.

O. A. FREDERICKSON

ARMORED ELECTRIC CABLE

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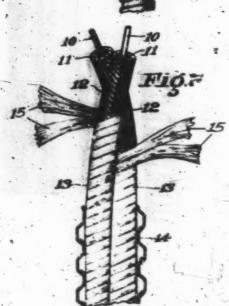
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Pug.4

Fig. 5







OH Condension

ATTORNEY.

UNITED STATES PATENT OFFICE.

BECH, OF WETHENSPIELD, COMMECTICOT, ASSISTED TO HA TOWAL DUCIS COMPORATION, OF PITTERUBUE, PERSUITABLE, A COR-DAYING IN DELAWARE

ARMORED RESCURED GARRIE.

This invention relates to improvements in the construction of electric conductors having a metallic enter about or jacket, commonly known as armored cables or conductors.

5 Cables of this general character ordinarily consist of two or more insulated conductors which are enclosed in an interlocked covering of insulated material, such as braided or woven fabric, and about which the spirally gether.

10 wound metallic jacket or sheath is placed, but such armored cables are open to many serious objections.

1. This invention relates to improvements in early increased the diameter of the armored 46 cable or sheath, so that the increased disaneter due to the ferrule or sleeve prevents the entering the usual electrical fittings with proper openings had to be provided, or, as was more usually the case, they were dispensed with altowered the increased disaneter.

An important feature of the armored 46 care to the ferrule or sleeve prevents the entering the usual electrical fittings with proper openings had to be provided, or, as was more usually the case, they were dispensed with altowered cables are open to many serious objections.

such armored cables are open to many serious objections.

In the installation of such armored cables as heretofore made the outer metallic jacket to reheath is out off some distance from the end of the exchand conductors, in order to make attachments of the conductors to electric fixtures, and where the conductor or conductors have as heretofore been covered by intersolocked strands, such for instance as woren or braided fabric, it has been further necessary after cutting the metallic sheath, to run a sharp instrument longitudinally of the esposed portions of the conductors to the end of the metallic sheath to sever the interlocked material longitudinally, and then cut the interlocked material transversely. These outting operations are likely to injure the insulation upon the conductor wires, thus increasing the danger of short circuits. It has likewise been customery in cutting the metallic sheath to cut it transversely about the conductors with a sharp instrument which itself is likely to again injure the insulation, and is any event, the cut end portion of the seatallic event, the cut end portion of the costallic

sheath will present burns or sharp? The which are especially liable to penetrate or cut into the insulation, and thereby form short circuit. In attempts to remedy this objectionable condition in the use of metallic armored cables, it has been customary heretofore to place an exterior fietal sleeve or farrule about the end of the metallic sheath. Such exterior ferrules or sleeves, however, are impractical because the metallic sheaths themselves vary in a se and spirally, and unless the ferrule or sleeve was properly connected to the its adjacent longitudinally split edges in sepathreaded or spiral portion of the outer sheath rated relation, so that the bushing may be it was liable to be displaced, with the result applied about the conductor or conductors at that defective electrical or mechanical connection resulted. This defective condition the amount of metal-nection resulted. This defective condition the same of much trouble and ancontacting its diameter it may be readily innoyance, but in addition thereto the exterior ferrule or seeve as heretofore applied neces- lic armor or sheath and the insulated con-

gether.

An important feature of the present invention, therefore, consists of an insulated esconductor or conductors which is, or are, wound with stripped material of an insulating fibrous nature, and associated with the end of the cut installic sheath or armor, is a sleeve or ferrule which is interpesed between 70 the insulated conductor or conductors and the interior of the metallic sheath, whereby all cutting action by the sharp edges or hurrs, formed in serving the metallic sheath or armor is avoided.

Where the insulating fibrous material is laid spirally about the conductor or conductors, it is readily unwound from the ex-

ductors, it is readily unwound from the exthe metallic sheath has been cut, and such so removal is readily accomplished by an un-winding action which may be extended down into the metallic sheath itself, thereby providing sufficient space for the ready insertion of the interior bushing or sleeve, as hereinbefore referred to. By this construction it will be evident at once that the sharp edges and burrs at the end of the cut off armored or metallic sheath are prevented from injuring the insulation on the conductor or conductors.

In the preferred form of the invention in the respects above noted the bushing is formed of insulating material such as fibre, bakelire or the like, so that even should injury occur to the insulation of the conductor or con- as ductors, the bushing will itself insulate the conductors from the metallic outer sheat!

Another important feature of the present invention consists in forming the bushing as a split tubular structure which normally has 100 serted between the inner surface of the metal10 now in general use.

ductor or conductors. Thus the objections heretofore existing in the old form of metallic armored or sheathed cables or conductors are readily overcome, short circuits absolutes ly prevented between the metallic sheath and enclosed conductor or conductors, and the diameter of the armored cable itself is not increased, so that it lends itself at once to direct application to the electrical fittings

The use of a spirally wound insulating covering about the covered conductors, in place of the braided or woven outer coverings proposed heretofore, has a further advantage bushing mounted inside of the armor of the in that the spirally wound fibrous strip may cable; be formed of material that is sufficiently compressible to constitute a cushion that fits snugly within the armored sheath or jacket, to thereby prevent sliding movement of the 20 covered conductors within the armored whereby chafing of the covering against the inner walls of the metal sheath is prevented. Heretofore the insulating covering lying next to the armored sheath has 25 been braided or woven, but it is difficult to prevent such braided or woven covering from sliding back and forth within the armored outer sheath with a chafing action; and to prevent this it has been customary to apply a coating of paraffin to the outer covering to fill or swell the same, out since paraffin possesses lubricating properties it will not en-tirely prevent the slicing movement of the covered conductors within the metal sheath. As above pointed out relative movement between the conductors and armored sheath is readily prevented, in accordance with the present invention, by forming the outer insulating covering of a cushioning material so that the coils of the armored sheath may sink sufficiently into the cushioning material

to lock the parts against relative movement. The use of an outer covering which is formed of a soft or compressible material 45 wound spirally about the covered conductors has a further advectage in that if the adjacent coils of the insulating material are wound close together so that their edges overlap, the overlapping edges will sink into each 50 other to form a smooth tight joint between the adjacent coils. As a result of these tight joints it will be practically impossible for the metal slivers which are sometimes formed upon the edges of the spirally wound strips of the armor to work through this outer covering and short circuit the conductors, whereas when the outer covering is woven or braided as heretofore, it is not difficult for these metal slivers to enter the interstices between

the interbraided or interwoven strands. The above and other features of the invenIn the drawings:

Fig. 1 is a side elevation of an armored cable constructed in accordance with the present invention, the covered conductors being should as extending beyond the end of the armor;

Fig. 2 is an enlarged view similar to Fig. 1, para of the armor being shown in section: Fig. 3 is an enlarged sectional view through the armored cable;

Fig. 4 is a perspective view of an expansion

bushing to b described; Fig. 5 is a perspective view showing the

Fig. 6 is a side elevation of a modified construction showing an armored cable having a single insulated conductor; and

Fig. 7 is a side elevation of a further modified armored cable construction.

In the drawings the armored cable is shown as provided with either one or two insulated electric conductors but it will be understood that the features of the present invention may also be employed in connection with armored cables having more than two insalated conductors.

In Figs. 1, 2, 3 and 5 of the drawings each electric conductor 10 is shown as having the usual form of insulation consisting of a rubber jacket 11 over which is provided a covering of braid 12, and about the two covered conductors thus formed is wound a novel protecting covering 13 of fibrous material that serves to unite the conductors and protect them from the outer metallic jacket or sheath 14.

The present invention is not concerned with the particular construction of the outer metallic jacket 14, and this jacket may be. formed of a spirally wound metal strip in any well known or preferred manner.
While the spirally wound insulating cov-

ering 13 may be formed of practically any fibrous material that is strong and durable, it is found that excellent results are secured by forming the covering 13 of strips of thin flexible paper 15 that is crumpled transversely into a soft rounded strand as shown. The paper strips 15 may be untwisted, or if de- ! sided, they may have a slight twist, but it is preferable that the twist be not great enough to render the paper hard and noncompressible. The covering 13 is shown as formed of two spirally wound strips 15, but a greater or smaller number of strips may be employed.

The spiral coils of the strips 15 are preferably laid sufficiently close together to cause their adjacent edges to overlap as at 16, and since the strips forming the coils are

slivers such as 17 that are accidentally formed upon the edges of the metal strip, to enter the

upon the edges of the metal strip, to enter the tightly closed joint 16.

The strip of metal forming the armored jacket 14 is preferably wound sufficiently tight about the covering 13 to cause the metal coils to sink slightly into the surface of the cushioning material 43 to thereby lock the covered conductors against sliding movement within the armored jacket.

As above stated an important feature of the present invention resides in means for preventing the covering for the conductors 10 from being cut or chafed by the sharp edges which are necessarily formed at the end of the armored jacket 14 when the end of the armored jacket 14 when the jacket is cut transversely. This is accomplished by providing a bushing or sleeve 18 which is preferably cut longitudinally as shown in Fig. 4 so that the sleeve may be opened out sufficiently to permit its inser-tion laterally over the covered conductors. The bushing may be made of spring metal if desired, but is preferably made of insulating material, and may be compressed between the fingers, as will be apparent from Fig. 4 to facilitate the insertion of the bushing within the end of the armor 14.

Before the bushing 18 may be inserted in 30 the armored sheath it is necessary to provide a clearance space for the bushing, but this is readily done by drawing several coils of the fibrous material 15 out of the space between the covered conductors 12 and metal 25 sheath 14 as will be apparent from Fig. 2, whereupon the expansion bushing may be readily inserted to its final position in which it is shown in Fig. 5. The expanding action of the bushing will hold it in place in 40 the armored sheath, and the bushing is preferably provided with a flange 19 at its outer

end that will abut against the end of the

armored sheath.

The bushing 18 is not only casy to insert vides a smooth surface for the covered conductors and eliminates any chance of the insulation upon the conductors being injured by the edges at the end of the armored sheath. . Furthermore, it constitutes a reenforcing sleeve or support for the inner wall of the metal sheath. This will facilitate the securing of a clamp or other form of attachment. tightly about the outer end of the reenforced 43 armor preparatory to securing the armor to the casing of an outlet box.

The insulating covering 12 and 13 may be treated with any of the usual moisture proofing compounds, and if desired a ground wire 20 may be laid alongside the covered conductors 12 so that it is enclosed and protected by the covering 13. This ground wire is highly desirable as it forms a dependable ground between the outlet boxes to which

round wire is not claimed herein as it has been made the subject matter of a separate application filed by me.

The modified construction shown in Fig. 6 differs from the construction shown in Figs. 70 -1, 2, 3 and 5 only in that in Fig. 6 the protecting covering 13 is wound about a single in-sulated conductor 12, and the metallic jacket 14 is placed about this single conductor, whereas in Figs. 1, 2, 3 and 5 the covering 13 76 surrounds and unites two insulated conduc-In the modified construction of Fig. 7 each insulated conductor is provided with a protecting covering 13 which may be removed without disturbing the covering 13 upon the other conductor, and these two conductors are enclosed in the metallic jacket 14. In each of the constructions shown and described several coils of the protecting ma- 85 terial 15 may be pulled out from the interior of the armored jacket 14 to form a clearance space for the bushing 18.

In the armored cables employed heretofore it has been customary to provide a braided so or woven jacket over the two or more covered insulated conductors and then apply the armored covering directly over the braided or woven jacket in relatively snug engagement with the bracket. There is therefore not suf- 05 ficient room between the metal covering and out r jacket of the armored cables constructed heretofore to receive a bushing 18, and it is practically impossible to remove a sufficient amount of the braided or weven jacket 100 from the interior of the armored covering to form a sufficient clearance space to receive

the bushing 18. This difficulty is entirely overcome by employing the construction of the present in- 105 vention, since the spirally wound covering 13 may be easily stripped off of the conductors 12 to produce the desired clearance for a bushing 18. The use of a spirally wound covering 13 has the further advantage in that it 110 is much easier for the wireman to remove than braid, since he need simply unwind the former while he must cut the latter. Furthermore, the use of a spirally wound outer covering which the wireman can readily un- 115 wind without any cutting operation avoids injury to the underlying insulation, whereas when a braided outer covering is used the underlying insulation is frequently injured by the wireman as he cuts away the outer 120 braided covering, and any injury to the underlying insulation necessarily increases the fire hazard.

What is claimed is:

1. An armored electric conductor compris- 125 ing, an insulated wire, a protecting covering of insulating material surrounding the insulated wire, a metallic sheath or jacket enclosing the protecting covering and insulated conductors may be connected, but such wire, and a bushing interposed between the in- 130

ic armored or sheathed cables or conductors re readily overcome, short circuits absolutey prevented between the metallic sheath and.

nclosed conductor or conductors, and the liameter of the armored cable itself is not ncreased, so that it lends itself at once to

lirect application to the electrical fittings low in general use.

The use of a spirally wound insulating overing about the covered conductors, in

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gainst the inner walls of the metal sheath is prevented. Heretofore the insulating covring lying next to the armored sheath has cen braided or woven, but it is difficult to

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ween the conductors and armored sheath is eadily prevented, in accordance with the present invention, by forming the outer inulating covering of a cushioning material o that the coils of the armored sheath may

ink sufficiently into the cushioning material o lock the parts against relative movement. The use of an outer covering which is ormed of a soft or compressible material

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he interbraided or interwoven strands. The above and other features of the invent on will be best understood from the followng description when read in connection with he accompanying drawings illustrating good ractical forms of the invention

rag. a as a side elevation of an armored cable constructed in accordance with the present invention, the covered conductors being shown as extending beyond the end of the armor;

Fig. 2 is an enlarged view similar, to Fig. 1, part of the armor being shown in section:

Fig. 3 is an enlarged sectional view through the armored cable; Fig. 4 is a perspective view of an expansion bushing to be described; Fig. 5 is a perspective view showing the bushing mounted inside of the armor of the cable;

Fig. 6 is a side elevation of a modified.construction showing an armored cable having a single insulated conductor; and Fig. 7 is a side elevation of a further modi-

In the drawings the armored cable is shown as provided with either one or two insulated electric conductors but it will be understood that the features of the present invention may also be employed in connection with armored cables having more than two insulated conductors.

In Figs. 1, 2, 3 and 5 of the drawings each electric conductor 10 is shown as having the usual form of insulation consisting of a rubber jacket 11 over which is provided a covering of braid 12, and about the two covered conductors thus formed is wound a novel protecting covering 13 of fibrous material that serves to unite the conductors and protect them from the outer metallic jacket or sheath 14.

The present invention is not concerned with the particular construction of the outer metallic jacket 14, and this jacket may be formed of a spirally wound metal strip in any well known or preferred manner.
While the spirally wound insulating cov-

ering 13 may be formed of practically any fibrous material that is strong and durable, it is found that excellent results are secured by forming the covering 13 of strips of thin. flexible paper 15 that is crumpled transversely into a soft rounded strand as shown. paper strips 15 may be untwisted, or if desired, they may have a slight twist, but it is preferable that the twist be not great emough to render the paper hard and noncompressible. The covering 18 is shown as formed of two spirally wound strips 15, but a greater or smaller number of strips may be employed.

The spiral coils of the strips 15 are preferably laid sufficiently close together to cause their adjacent edges to overlap as at 16, and since the strips forming the coils are relatively soft, their overlapping edges will sink into each other to form a smooth tight joint as showh. As a result of this construcion it is no disally impossible for the metal

slivers such as 17 that are accidentally formed

slivers such as 17 that are accidentally formed upon the edges of the metal strip, to enter the tightly closed joint 16.

The strip of metal ferming the armored jacket 14 is preferably wound sufficiently tight about the covering 13 to cause the metal coils to sink slightly into the surface of the cushioning material 13 to thereby lock the covered conductors against sliding movement within the armored jacket.

As above stated an important feature of the present invention resides in means for preventing the covering for the conductors 10 from being out or chafed by the sharp edges which are necessarily formed at the end of the armored jacket 14 when the jacket is cut transversely. This is accomplished by providing a bushing or alceve 18 which is preferably cut longitudinally as shown in Fig. 4 so that the sleeve may be opened out sufficiently to permit its inseropened out sufficiently to permit its insertion laterally over the covered conductors. The bushing may be made of spring metal if desired, but is preferably made of insulating material, and may be compressed between the fingers, as will be apparent from Fig. 4 to facilitate the insertion of the bushing

within the end of the armor 14. Before the bushing 18 may be inserted in the armored sheath it is necessary to provide a clearance space for the bushing, but this is readily done by drawing several coils of the fibrous material 15 out of the space be-

tween the covered conductors 12 and metal 28 sheath 14 as will be apparent from Fig. 2, whereupon the expansion bushing may be readily inserted to its final position in which it is shown in Fig. 5. The expanding action of the bushing will hold it in place in 40 the armored sheath, and the bushing is pref-

erably provided with a flange 19 at its outer

end that will abut against the end of the armored sheath. The bushing 18 is not only casy to insert in the end of the armored sheath, but it provides a smooth surface for the covered con-

ductors and eliminates any chance of the insulation upon the conductors being injured by the edges at the end of the armored sheath. so Furthermore, it constitutes a reenforcing sleeve or support for the inner wall of the metal sheath. This will facilitate the secur-

tightly about the outer end of the reenforced armor preparatory to securing the armor to the casing of an outlet box.

ing of a clamp or other form of attachment

The insulating covering 12 and 13 may be treated with any of the usual moisture proofing compounds, and if desired a ground wire 20 may be laid alongside the covered conductors 12 so that it is enclosed and protected by the covering 13. This ground wire is highly desirable as it forms a dependable

ground between the outlet boxes to which the conductors may be connected, but such

ground wire is not claimed herein as it has oeen made the subject matter of a separate application filed by me.

The modified construction shown in Fig.

6 differs from the construction shown in Figs. 7, 1, 2, 3 and 5 only in that in Fig. 6 the protecting covering 13 is wound about a single insulated conductor 12, and the metallic jacket 14 is placed about this single conductor, whereas in Figs. 1, 2, 3 and 5 the covering 13 70 covering 13 and 5 the covering 13 70 coveri whereas in Figs. 1, 2, 3 and 5 the covering 13 results and unites two insulated conductors which are protected by the armor 14. In the modified construction of Fig. 7 each insulated conductor is provided with a protecting covering 18 which may be removed 80 without disturbing the covering 18 upon the other conductor, and these two conductors

other conductor, and these two conductors are enclosed in the metallic jacket 14. In each of the constructions shown and described several coils of he protecting material 15 may be pulled out from the interior of the armored jacket 14 to form a clearance space for the bushing 18. In the armored cables employed heretofore

it has been customary to provide a braided so or woven jacket over the two or more covered insulated conductors and then apply the ar-mored covering directly over the braided or woven jacket in relatively mug engagement with the bracket. There is therefore not suf- 05 ficient room between the metal covering and out r jacket of the armored cables constructed heretofore to receive a bushing 18, and it is practically impossible to remove a sufficient amount of the braided or woven jacket 100 from the interior of the armored covering to form a sufficient clearance space to receive

the bushing 18.

This difficulty is entirely overcome by employing the construction of the present in- 105 vention, since the spirally wound covering 13 may be easily stripped off of the conductors 12 to produce the desired clearance for a bushing 18. The use of a spirally wound covering 13 has the further advantage in that it 110 is much easier for the wireman to remove than braid, since he need simply unwind the former while he must cut the latter. Furthermore, the use of a spirally wound outer covering which the wireman can readily un-wind without any cutting operation avoids injury to the underlying insulation, whereas when a braided outer covering is used the underlying insulation is frequently injured by the wireman as he cuts away the outer 120 braided covering, and any injury to the underlying insulation necessarily increases

What is claimed is:

the fire hazard.

1. An armored electric conductor compris- 128 ing, an insulated wire, a protecting covering of insulating material surrounding the insulated wire, a metallic sheath or jacket enciosing the protecting covering and insulated wire, and a bushing interposed between the in-

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of th at the end of

eath to tallic s lation of the conductors from protect the insulation of the conductors from the edge formed at the end of the metallic sheath.

7. An armored electric conductor compris-

plated wire and the metallic shouth or jacket ing, an insulated wire, a metallic shouth en-Dg mount-

an armored outer a protecting covering ng the covered conductors a mining material laid in or mining material laid in or mining material laid in or re coils may be reeath so that one or n oved from the interior of the end portion of a armored sheath to form a bushing receivng clearance space, and a protecting but dapted to be inserted in said clearance adapted to be inserted in said clearance space between the armoved sheath and conductors and provided with a flange adapted to abut against the end of the armoved sheath.

In testimony whereof, I have signed my name to this specification.

OTTO A. FREDERICKSON

DISCLAIMER

1,687,013.—Otto A. Predericheen, Wethersfield, Conn. Anseemed Blucture Carlin.

Patent dated October 0, 1933. Disclaimer filed December 8, 1932, by the patentee, the ensigner, National Electric Products Corporation, acquiescing.

Hereby enters this disclaimer to that part of the claim in said Letters Patent which is in the following words, to wit: claims numbered 1, 3, 4, 5, and 6, said claims

or follow

hich is in the received allows:

"1. An armored electric conductor comprising, an insulated wire, a protecting overing of insulating material surrounding the insulated wire, a metallic sheath overing of insulating material surrounding the insulated wire, and a bushing interpose tween the insulated wire and the metallic sheath or justist to protect the winsulation from the edge formed at the end of the metallic sheath or justist or justist."

"3. An armored electric conductor comprising, an insulated wire, a protecting vering of insulating material surrounding the insulated wire, a metallic sheath evering said covering and insulated wire, and a split bushing interposed between the insulated wire and the metallic sheath to protect the wire insulation from the dige formed at the end of the metallic sheath.

covering of ineul

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respect around the insulated wire, a protecting respect around the insulated wire, a metallic sheet lated wire, a bushing interposed between the insulation from the edge form and a flatter at the to metallic shoeth to protect the wire insulation from the odge for the end of the metallic sheeth, and a flange at the outer end of the bushing adar-ated electric cable operations.

the end of the metallic sheath, ored electric cable comprising, insulated electric conductors laid side ecting covering of insulating material surrounding the insulated con-allic sheath enclosing said protecting covering and conductors, and a cond between the insulated conductors and the metallic sheath to ulation of the conductors from the edge formed at the end of the by mide, a protecting covering of in ductors, a metallic sheath enclosing bushing interpreted between the in protect the in

metallic sheath.

"6. An armored electric cable comprising, insulated electric conductors laid side by side, a protecting of vering of insulating material surrounding and uniting the insulated conductors, a spirally wound metallic sheath enclosing said protecting covering and conductors, and a bushing interposed between the insulated conductors and metallic sheath to protect the insulation of the conductors from the edge formed at the end of the metallic sheath."

[Official Gasette January 3, 1933]



No. 681,416.

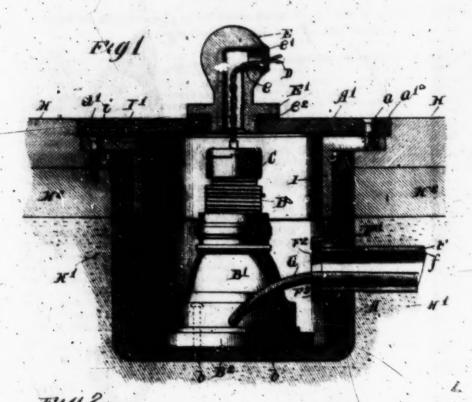
Patented Aug. 27, 1901.

OUTLET FOR ELECTRIC CONDUCTORS.

Application that Day 17, 1900

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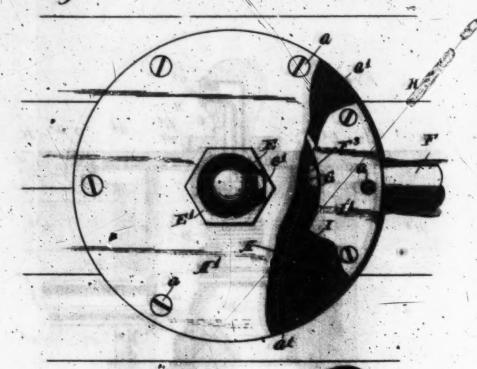
No. 801,416.

Patented Aug. 27, 1001.

J. H. SOURST & C. M. WILKES. SUTLEY POR ELECTRIC COMPOCTORS.

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John N Goelest
Charles M Nethes
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UNITED STATES PATENT OFFICE.

JOHN II. GOEHET AND CHARLES M. WILKES, OF CHICAGO, ILLINOIS.

OUTLET FOR ELECTRIC CONDUCTORS.

of Letters Potent No. 001,416, dated August 27, 1001. der 17, 1900. Gardel Mr. 48,188. (Grandel.)

ay be adapted for for instance, in the

t of the invention is to provide an is character which will be waterth may be adjusted readily and acesustruction or charact d which is readily access or or wall, and to permit renewal or repair of the accket or fuse-plug which is contained within the out-

As shown in the drawings, Figure I is a vertical section taken through a floor and outlet, illustrating, partly in section and partly in elevation, an outlet-box made in accordance 35 with my investion. Figs. 2 and 3 are fragmentary plan and sectional views, respectively, of the cover of the box, showing the plug for closing the aperture therein when the nozzie is removed. Fig. 4 is a plan view of the box with parts broken away to show the subjacent parts. Fig. 5 illustrates a double nozzie for the box. Fig. 6 illustrates another modification of the nozzie. Fig. 7 shows an adaptation of the invention to a ceiling or adaptation of the invention to a ceiling or 45 wall outlet.

As shown in said drawings. A indicates the body of a metal outlet-box, which is closed at

its sides and bottom and open at its top and is made of an integral casting. The said box 50 is closed by a flat cover A'.

B designates the usual socket located within the box and attached to the upper end of screw-threaded engagement in the inner end

a southet-base It', of insulating uniterial, which is secured by acrews b to the lower or inner wall of the bex. Desirably an insulating disk 55 or subbase It's interpresed between the lower end of said bese B' and the bottom of said box. C designates the usual plug, which has serow-threaded engagement with the socket B and to which is connected flexible conductors D, which are covered with the usual insulating or fabric covering and lead out through the cover A' of the box. Said plug may be a fune-plug, in which case it will conmay be a fune-plug, in which case it will con-tain any usual or preferred form of safety- 65 fuse or lightning-arreter. Sald conductors are led from said box through a nozzle E, which has screw-threaded engagement with an aperture in the cover A of the box and is provided at its upper end with an opening 70 c, through which the conductors are led. Said nourie-opening is desirably provided with an insulating bushing c, which is so constructed as to prevent contact of the metal onductors with the body of the norsde should 75 the insulating covering become chafed or worn away. Said nozzle is provided near its base with a radial flange E, which overlaps the cover of the box, and between said flange and the said cover is inserted a packing-ring 80 or gasket c2 to make a water-tight joint at

this point.

F designates a pipe constituting a conduit which leads into one side of the box, above the bottom thereof, and through which the 85 conductors (+ are carried into said box, where they are connected with the socket-base B' in the usual manner. In some instances two conduits may enter said box, preferably from opposite sides thereof, whereby one or more 90 conductors may be carried to the box or through said box, around the socket-base B therein. The pipe constituting said conduit F has screw-thresiled engagement with the wall of the box and is held in place with re- 95 spect to said wall by a jam-nut F, which has screw-threaded engagement with the in-ner end of the pipe and bears against the inner face of the box-wall. The conduit-pipe is shown as provided with the usual insulat- 100 ing-lining f, and the end of the pipe is shown as provided with an insulating ring F', which

out F and provided at its outerthe or intersed fining, as shows in Fi aid ring, as si

id ring, as shown in Fig. 1.
The cover A' of the entlet-box is adjustable ith respect to the hadrest box is adjustable. ly of the

the cover and into the sauge. A paring or gaskur of in interposed, between cover and flange I' to insure a water joint between said parts. The floor H so way or rabbated around the opening twhich receives the saver a depth attitude over a depth attitude the upper surface of said. A', 80 88 80 bring the upper surface of said cover level with the floor. The sorew-threaded consection described enables the cover to be raised or lowered relatively to the body of the box, and when properly adjusted the ring is intended to be permanently fixed in position with respect to said body.

The body of the outlet box is meally installed in or on the floor supports at the time the conduits F are placed in position, and said work is ordinarily done before the floor Il is laid. As, for instance, in the case of the in which a concrete filling is placed over the iron girders and tile arehas between the same,

on which filting the floor is laid, the conduit and the body of the lox will be laid or emso bedded in such filling. If the top wall or enver A' of the box were non-adjustably fit-ted to the body of said box, it would be exeredingly unicult, if not impossible, to so install the box that the said upper wall would 55 be accurately flosh with the upper surface on the floor when the floor is finished. With the

adjustable connection described, however, the body of the box may be installed or secured in place without regard to the final feel of the floor proper, care only being taken that the bex be placed in a properly horizontal or level position, and the said ring after said floor has teen laid may be a second floor has teen laid. after said floor has been laid may be vertically adjusted with respect to said body to 65 the requisite height to bring the top of the cover flush with the upper surface of the

ne between the ring I is ofand joint between the 70 ly of the box is leaded. The ite one, such te commonly H', made of concrete 75 H' which are laid over ment of the 80 naturecale wood a the horizontal ine is finished. In this latter the parts of 95 the bex were afforded. When the outlet is not in we, the name E is removed and the aperture in the cover of the bax is closed by means of a plug A', which is screw-threaded to engage said will, as shown in Figs. 3 and 100 3, and is figsh with the top of the cover when inserted. Said plug is provided with a slot of for engagement therewith of a suitable implement by which said plug may be turned into and out of place.

In Fig. 5 is illustrated a nextle J, similar to with a greater of the cover when into and out of place.

the nomic E, with the exception that it is provided with two laterally directed openings j for the passage of the conductors from the plug C. Said laterally directed openings are are provided with insulated bashings j, as ge of the conductors from in the construction before described. vantage gained by arranging the outlet open-ing or openings of the nessie so that they are directed laterally instead of extending 11 through the top of the nomic is that such interal disposition of the openings prevents injury to the conductors such as might occur in case of the contact with the nozzie of the feet of a person sitting at a deak or under it like circumstances.

In some instances, as where the outlet-box is placed underneath or at the side of a deak upon which is located an electrical device to which it is desired to lead electric conductors and it is not desirable to have expected conductors which may become entangled with the articles surrounding them, the nomic K may be elevated above the floor by being attached to the upper end of a straight pipe I K', as shown in Fig. 6, which pipe has screw. threaded engagement at its lower end with the box-cover and is adapted to extend at its rpper end near or into the deak. Said nozzle their. In coder to secure a permanent and

K may be made like either of the nomies be-fore described, and the pipe is made of the length required to adapt it to any particular

In Fig. 7 we have shown a means of adapting our invention to a wall or ceiling outlet.

The general form of the bex will in this case be the same as that already illustrated. In place of the nousies heretofore described the conductors are adepted to be led from the box through a nipple L, which is serventhreaded at its end projecting from the box to receive a lamp fitting or bracket. The nipple may commit of a short tube which has ple may consist of a short tabe which has 15 acrew-threaded engagement with the cover of the bex, as shown in said drawings, or may be made integral with the said cover.

We claim as our invention—

1. An outlet comprising a box and a reso movable cover for said box provided with a
nossle rising above its upper surface and
forming a passage for conductors, said cover
having a detachable, water-tight connection
with the box.

25 2. An outlet comprising a box-body, a remevable cover therefor, means affording water-tight acqueetion of the cover with the

er-tight connection of the cover with th body, constructed to permit adjustment of the cover with respect to the body, and a nor-30 sie for the passage of conductors secured to said cover and communicating with the inte-

rior of the box.

3. An ontlet comprising a box-body, a removable cover for said body provided with 35 an aperture for the passage of conductors, and an intermediate ring between the cover and the body with which said cover has detschable water-tight connection, said ring having screw-threaded and water-tight con-'40 nection with the body, whereby the cover may be adjusted with respect to said body.

4. An outlet comprising a box, a removable cover which is secured to the bax by a detachable water-tight connection and is pro-45 vided with an aperture for the passage of conductors and a nozzle having screw-threaded and water-tight connection with the aperture in the cover.

5. An outlet comprising a box, a cover hav-50 ing detachable water-tight connection with the box, and a noxile rising from the covor provided with a passage for conductors, said box having connected therewith an outwardly-extending flange, located below the

level of the cover and adapted tor sesertion ge therethrough of screws for securing the box

to a support located below the level of the surface of the floor in which the box is placed.

6. An outletoom prising a box-body, a cover for closing said body, a ring which has serenthroaded suggesters with the open and of said body, means for removably attaching said body. aid cover to said ring, and a nozzie which chable connection with said cover and which communicates with the interior of 65

the box.

7. An outlet comprising a box-body, a cover for mid body, a ring which has screw-threaded engagement with the open end of said body, means for removably attaching said cover to 70 anid ring, a nossle which has acrew-threaded ant with said cover, and the bore of which communicates with the interior of the box, and a packing-ring between the base of said nozzle and the cover.

8. An outlet comprising a box having a renovable cover, and a nossle adapted for attachment to the cover and having a lateral exit-opening for the passage of conductors therefrom.

 An outlet comprising a box having a re-sovable cover provided with a screw-throadd aperture, and a notice which is screw-areaded at one end to engage the aperture of the cover and is provided near its opposite 85 end with an exit-opening for the passage of a conductor, said opening being provided with a bushing of insulating material.

10. The combination with a conduit, of an outlet comprising a box-body, a cover for said 90 body, a ring which has adjustable connection with the body and to which the cover is detachably secured, a socket secured in the boxbody and separated by insulating material therefrom, and conductors leading through 95 the conduit to the said socket, said cover being provided with a detachable nozzle for the age of conductors from the box.

In testimony that we claim the foregoing as our invention we affix our signatures, in pres- 100 ence of two witnesses, this 11th day of Decem-

ber, A. D. 1000.

JOHN H. GOEHST. CHARLES M. WILKES

Witnesses: W. L. HALL GERTRUDE BRYCE.

The second the best new charges of the state of the course of the formation The second of the second second of the second secon

your in the market a loss of the contract of the state of

the state of the s with Buttoffield when the the to see the and contraction of other way of male and

Location was not been a company three discussions.

No. 799,989.

PATENTED SEPT. 19, 1905.

C. J. RLEIN.

OUTLET BOX.

S SECRTS-SEEST 1.

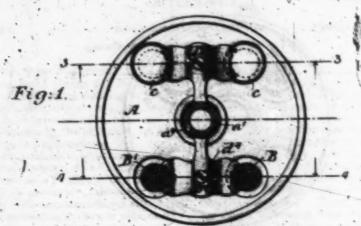
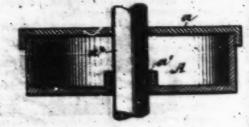


Fig. 2.





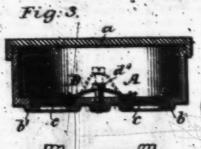


Fig 4

Shall Ham

Tito Bengine

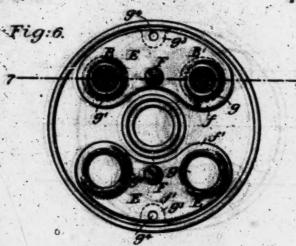
Williegoes:

his attorney

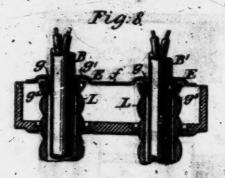
Q. J. KLRIN.

APPLICATION PILED SEPT 89, 1904.

S SEEDTS-SEEDT 1.







Bets Mangue

Black Silling Son Beyond State

his attorney

CHARLES J. KLEIN, OF NEW YORK, N. Y., ASSIGNOR TO RALPH A. SCHOENBERG, OF NEW YORK, N. Y.

UUTLET-BOX.

No. 799,989.

Specification of Letters Patent.

Patented Sept. 19, 1905.

Application fled September 23, 1804. Serial No. 225,674.

To all whom it may concern:

Be it known that I, CHARLES J. KLEIN, a citizen of the United States, residing 1 the borough of Manhattan, city, county, and State of New York, have invented certain new and neeful Improvements in Outlet-Boxes, of which the following is a specification.

the following is a specification.

My invention relates to what are technically known in the electrical art as "outlet-boxes" or "junction-boxes"—that is, to a box or re-

ceptacle which provides for the ready making or changing of electric connections with outletconductors secured in the box or receptacle. The invention has for its object to provide an

The invention has for its object to provide an improved outlet-box which will be superior in point of convenience in installation and use, positiveness in operation, inexpensiveness in construction, and general efficiency.

I will describe an outlet-box embodying my so invention and then point out the novel fea-

tures thereof in claims.

In the accompanying drawings, Figure 1 is a top plan view of an outlet-box embodying my fivention, the cover therefor being removed. Fig. 2 is a central and vertical transverse sectional view with the cover in place. Fig. 3 is a vertical transverse sectional view taken on the line 3 3 of Fig. 1. Fig. 4 is a view similar to Fig. 3, but taken on the line 30 4 4, Fig. 1. Fig. 5 is a detail view. Fig. 6 is a view similar to Fig. 1 and showing a modified form of construction. Fig. 7 is a view similar to Fig. 4 and taken upon the line 7 7 of Fig. 6, and Fig. 8 is a view similar to Fig. 35 7 and showing a still further modified form of construction.

Similar letters of reference designate corresponding parts in all of the figures.

Referring now to the drawings. A designates a suitable box or receptacle which is preferably provided with a removable cover a. The box may be of any dimensions and contour. As shown in the drawings, it is cylindrical. The box is provided with a flanged to other opening a', here shown as being centrally located, which receives a support a'. The box is also provided or formed with one or more openings b'b', &c., through which outlet or other conductors or cables B B', &c., or the armor or conduits of or for the same may be passed. The openings are preferably formed with a shoulder which serves as a support for a disk c. A disk is provided for each opening through which a conductor B

B' is not passed. These disks and the conductors are beid in the box and the box secured to the support A' by preferably a common means, although, if desired, the box may
be secured to its support, by independent
means. In the latter case, as will hereinafter 60
appear, such independent means should have
a metallic consisction with the means for securing the disks and conductors in the box.

D D' designate common means for securing

D D designate common means for securing the conductors and disks in the box and the 65 box to its support. These means preferably are such that when pressure is applied to them they will act to clamp or otherwise bind or hold the disks and conductors in the box. They are also independent of the box and may 70 be removed therefrom. As here shown, they comprise bowed pieces of resilient metal and screws d', which when passed through a suitable opening in the box tend to flatten the metal, and thus cause its edge portions to move later- 75 ally. As shown in Fig. 5, each metal piece comprises three arms dd/d^3 , two of which when the piece is in position in the box extend toward two adjacent conductor-openings in the box and the third toward the support. It will be 80 understood that these pieces before being subjected to pressure by the screws d' are of such size as not to cover the conductor-openings; but when subjected to pressure they will extend over the openings, thus serving to hold 85 a disk or disks or a conductor or conductors in place. The edge portions of two of the arms may be formed in any desired manner to firmly engage with the conductors to hold them in the box. The same is true of the third 90 arm, which sets to hold the box to the support. It will be understood that the means D D', instead of being the common means described, may be provided with only two arms to coact with conductors or disks, and separate means 95 may be employed to hold the box on the sup-port, in which latter case said separate means should be electrically connected, respectively, with the means D D'. Preferably the support will be of metal—for example, a pipe 100 which has some metallic connection with the ground. The advantage of this is that should there be any defect in the insulation of the conduct r or conductors within the box the securing means D D' will serve as a path di- 405 rectly to the ground. This should be true whether the means D D' act to secure the conductors and disks in the box and the box to

the support or only the conductors and disks | within the latter between the conductors and in the box.

The means D D' do not destroy the in tion of the conductors when subjected to pres-5 sure, but only set to clamp, bind, or hold the conductors in the openings. As regards the disks, the seems DID when subjected to pressure extend over the disks (see Fig. 3) to

them on the shoulders.

It will be understood that the dishe o will be understood that the dishe o will be the means. D' serve to de a closed condition of the

In the m 15 trated in Wa is provided for t e of each device E mirror projects wil mor sand yer of the army with contact permitted, the i ting, tending to ploree the insules bushing device E is held fire securing means P, and two of the be vices are compris 30 plates f and f being formed with an opening y, through we conductors, such as B and B', p fitting closely down upon the sade of the more of the conductors at the marginal stions of the optnings y and effectually hing the conductors out of contact with each of contact with ends of such armor. With this esti in view the marginal portions of the openings y are preferably crimped or curved, as at \$\sigma\$, to fit 40 closely over the sade of the armor s. Each plate fand f may be provided with an ear

plate f and f may be provided with an ear

g', having a thrested opening g' to receive a
screw for securing the cover of the outlet-box
in position. The plates f and f are arranged

45 above the securing means D D', and the securing means F consist of screws k, which
pass through openings k' in the plates f
and hold the latter firmly in place, preferably
entering tapped openings k in the screws d',

50 which hold the securing means D D' in place.
In the modified form of construction illustrated in Fig. 8 the conductors D D' are
shown as entering the outlet-box within con-

shown as entering the outlet-box within conduits L such as commonly are permanently 55 installed in buildings and independent of the conductors themselves, the conductors being commonly drawn through the conduits, at the lead to the desired points. In the of such conduits a material space common surrounds the conductors within the units and this permits of flanging the marginal por tions of the openings g of the plate for f, constituting the two bushing devices E, as at

g', such flanged marginal portions g' fitting 65 over the end portions of the conduits L and

the conducts, effectually keeping the conduc ters out of montact with the ends of the conduits with the same purposes as accomplished in consistent with the conductors and armore construction disclosed in Figs. 6 and 7.

The plate f or f, or both, may be secured position, as illustrated, in the same man er as described in connection with the illustrated in Figure 1.

ner as described in connection with the illustration in Figs. 6 and 7.

I do not desire to be understood as limiting appeal, and connection of parts as illustrated and described, but reserve the right to vary the same in adopting my improvements to varying conditions of me without departing from the spirit of the invention or the terms of the following claims.

Having thus described my invention, what

oribed my invention, wha

chings new is—

1. An outlet-box having common means for iding conductors therein and the box to a

2. An outlist-box having openings through which entites may be pessed and disks fitted to show the openings and provided with common means for holding conductors in the box of disks in the openings.

dishs in the openings.

3. An outlet-box having openings through which eables may be passed and disks fitted to close the openings, and provided with common means for helding conductors in the box or disks in the openings and the box to a sup-

An outlet-box having common means for helding conductors therein and the box to a

medding conductors therein and the box to a support, said means constituting an electrical path between the conductors and the support.

5. An outlet-box having resilient means for helding conductors therein, said means con-sisting of a bowed piece which is flattened into holding position.

6. An outlet-box having resilient means for holding conductors therein, said means con-sisting of a bowed piece, and means for sub-jecting said means to pressure to flatten mid ing said means to pressure to flatten said piece into holding position.

bowed piece into holding position.

7. An outlet-box having resilient common means for holding conductors therein and the box to a support, said means consisting of a bowed piece, and means for subjecting said means to pressure to fixten said bowed piece into holding position.

8. An outlet-box having means for holding conductors therein, said means consisting of a bowed piece, and means laterally actuating said holding means into operative position by fixtuning said howed piece.

9. An outlet-box having means for holding armoved conductors therein, a bathing device applied to the conductors at the end of the armor of each, and means for securing said bushing device in position.

ng device bushing device in position.

10. An outlet-box having means for holding a conduit therein, a conductor within the conduit and projecting from the same within the outlet-box, and a bushing device applied to the conductor at the end of the conduit and extending between the conductor and the conduit.

11. An outlet-box having a conduit therein, a conductor within the conduit and projecting therefrom, and a bushing device applied to the conductor at the end of the conduit and to extending between the conductor and the conduit.

12: An outlet-box having a plurality of confluctors therein, and a plurality of bushing devices applied to said conductors within the outlet-box and comprising a place provided with openings through which the conductors

13. An outlet-boy having a conduit therein, a conductor within the conduit and projecting

from the end thereof, and a bushing device 20 applied to the conductor at the end of the conduit and provided with a flange extending between the conductor and the conduit and over the end of the conduit.

16. An outlet-box having a plurality of 25 conductors therein, and a plurality of bushing devices applied to said conductors within the outlet-box and comprising a plate provided with flanged openings through which the conductors page.

In witness whereof I have signed my name to this specification in the presence of two subacribing witnesses.

CHARLES J. KLEIN.

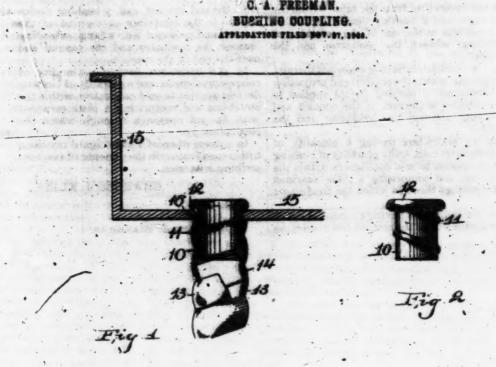
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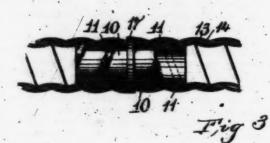
A. B. FULTON, RAYMOND I. BLAKESLEE. KU.

No. 848,819.

PATENTED APR. 2, 1907.

C. A. PREBNAN.





Mehanler S. Fre

CHARLES A. FREEMAN, OF EAST ORANGE, NEW JERSEY.

SUBHING-COUPLING.

No. 848,819.

Boation of Letters Patent.

Patented April S, 1907.

Application fled Berember 37, 1900. Berial Bo. 345,590.

To all whom it may concern:

Be it known that I, CHARLES A. FRESMAN, a citizen of the United States, residing at East Orange, in the county of Essex and 5 State of New Jersey, have invented certain new and useful Improvements in Bushing-Couplings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to a device that can be used as a bushing for electrical conduits, as

a coupling between two ends of conduits, and also used to couple the ends of conduits

to a conduit-box.

As previously coupled or provided with bushings the conduits are cut off and are provided with a lead or similar soft bushing, and they are then fastened up against a conduit-box or another conduit by the assistance of another mechanism. This present

25 ance of another mechanism. This present style of lead bushings are very soft, and when they become bent or mutilated inside they form a serious obstruction to the installation

of wires or cables through the conduits.

30 This invention is designed to provide an article of this kind, however, which is made of rigid metal, such as brass, and is adapted not to lose its shape, and forms a ready means for coupling a conduit to another element.

In the drawings, Figure 1 is a sectional view showing a conduit coupled to a box, and Fig. 2 is an elevation of the coupling Fig. 3 is a broken section of a coupling used

to connect two ends of conduits.

I provide in this device a tubular member 10, which is preferably made of a stiff rigid metal and can be cast; but I prefer to stamp or spin it from sheet metal. The tubular member is provided with a raised portion 45 forming a thread 11; and on the device shown

in Fig. 1 I forn. a flange or turned-over portion 12, and in case the device is made of sheet metal it is curled over to make it stiff

to receive pliers or a similar tool. The tu-50 bular member is supposed to fit into a con-duit made up, as usual, of the outer layer 13 and the inner layer 14, these being made of a soft metal, usually lead, and when the end is cut off of a conduit and placed up against a

conduit-box 15 the thimble or tubular por- 55 tion 10 of the coupling is screwed down into the conduit by means of the pliers or by hand, and the thread 11 will fit, and force slightly apart, the meeting points of the coils of the inner layer 14 of the conduit and be- 60 come locked, in a way, against accidental re-

moval or displacement.

I have found that when screwing up a stiff rigid thimble of this sort in the yielding structure of the conduit the spreading of the 65 members of the conduit grip the threads 11 hard enough to make it difficult to remove the coupling by force. Of course it will be understood that these members can be used on the end of a conduit by simply screwing it 70 into the conduit and having it act as a bushing to give a smooth edge, which is required by the usual underwriter's regulation.

In Fig. 3 I show the device formed with the tubular member 10 being elongated and pro- 75 vided, as before, with the screw-thread 11, the apparatus being in this instance shown as cast. A central flange 17 is installed in the structure to receive a proper tool and to also act as a bearing on each side for the close 80 fitting of the conduit, this structure forming a coupling between two ends of conduits and forming a joint that is very tight and that will not come upart and requires no outside fitting to go over the joint to keep the ends of 85 the conduit together.

Having thus described my invention, what

I claim is

1. In combination with an electrical conduit having a lining wound in helical convo- 90 lutions with a slight space between the windings, of a device comprising a rigid metallic tubular member to enter the conduit and having an external thread to enter the spaces between the windings of the conduit 95 and arranged to partly spread the windings longitudinally and be locked therein, and having a flange for the reception of a tool.

2. In combination with an electrical conduit having a lining wound in helical convolutions, of a tubular metallic member having a thread to enter the juncture of the rindings and arranged to part the windings iongitudinally by its entrance and be locked therein, the member having a flange adapted 105

to receive a tool.

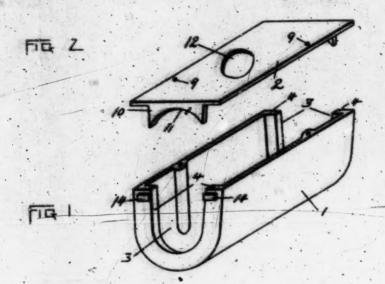
3. In combination with an electrical conduit having a lining wound in helical convolutions, of a tubular metallic member having a raised helical thread on its periphery to enter between the convolutions of the lining to spread them apart longitudinally and be held thereby, the tubular member being turned over to form a flange for the reception of a tout.

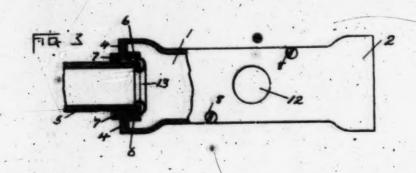
In testimony that I claim the foregoing have hereunto set my hand this 24th day November, 1906.

Witnesses:

WM. II. CAMPIRED,







WITHESSES

HVENTOR Charles a Hindell,

CHARLES A. HINSDILL, OF TROY, NEW YORK.

CONDUIT-BOX.

No. 849,505

Mostles of Letters Fate

ted April 9, 1907. 4

harten find April 35, 1006. Getal No. 312,784.

To all whom it may concern:

Be it known that I, CHARLES A. HIMSDILL a citizen of the United States, residing at Troy, county of Rensselacr, and State of New 5 York, have invented certain new and usefui Improvements in Conduit-Boxes, of which the following is a specification.

The invention relates to such improve-

ments, and consists of the novel construction

not combination of parts hervinafter described and subsequently claimed.

Reference may be had to the accompanying drawings and the reference characters marked thereon, which form a part of this

Similar characters refer to similar parts in the several figures therein.

Figure 1 of the drawings is a view in isometrical perspective of the body of my improved conduit-box. Fig. 2 is a similar view of the cover thereof. Fig. 3 is a plan view of the covered side of a bax of different shape from that shown in Fig. 1, partly broken away, and shown in section, with the conduit-pipe connected with one end of the

The principal object of the invention is to facilitate the application of outlet-boxes to conduit-pipes, as well as to simplify the construction of the outlet-box.

Referring to the drawings, wherein the invention is shown in its preferred form, 1 represents the body of the outlet-hox, having an open side adapted to be closed by a cover 2. One or both ends of the box-body are formed with open slots 3, extending to the open side thereof, forming parallel flanges 4 4, extending from the open side of the box inwardly. The box-body is adapted to be connected with the end of a conduit-pipe 5, through which the circuit-wires lead into or from the hox. The end of the conduit-pipe 5 is exceive thereon a pair of nuts 6 and 7, the pipe being adapted to occupy the open of t 3 in the end of the box pipe and the nut and 7 to embrace and clamp between the the parallel flanges 4 on opposite sides of said shit.

The construction of the box is such that

when the cover is removed the conduit-pipe, with the two nuts 6 and 7 upon its threaded portion, can be inserted in position through the open side of the box and the open end of slot 3, the nuts 6 and 7 being spaced suffi-

ciently apart to receive therebetween the side flanges 4. After the pipe has been thus inserted to the bottom of the slot B the mut 7 is screwed toward the end of the pipe justil the flanges 4 are tightly clamped be- 60 tween the two nuts, thereby securing the box upon the conduit-pipe. When the box has been thus applied and secured to the pipe, the cover is applied to the open side of box and secured thereupon by means of the \$5 screws 8, inserted through apertures 9 in the cover into the side walls of the box-body.

The cover is provided with an end flange 10

The cover is provided with an end flange 10 of less thickness than the flanges 4, adapted to fill the space between said flanges, having 70 its end recessed, as shown at 11; to fit around the pipe 5, said flange 10 being adapted to pass freely between the nuts 6 and 7.

The cover is provided with an outlet-aperture 12 for the branch wime (not)

ture 12 for the branch wires, (not shown,) 75 which are connected with the main circuit-

wires within the box.

My improved box can be applied to or re-moved from the end of a conduit-pipe or the neighboring ends of two or more conduit- 80 pipes, it only being necessary to remove the cover from the box and loosen the lockingnuts 7, whereupon the box can be slipped off from the pipe or sipes, leaving the direuit-wires free of access to the workman and af- 8; fording him ample space within which to perform his duties

The nut 6 is shown provided with a sheetmetal bead 13 to prevent injurious contact of the circuit-wires with the ends of the pipe. 90

The circuit-wires are not shown.

As a means for preventing accidental displacement of the box in case the nut 7 should accidentally become slightly loosened, so as not to engage with sufficient force the end 95 wall of the box, I have shown the end wall of the box provided on its outer side with lugs 14, adapted to overhang the nut 7 after the same has been partly screwed to its seat, whereby such displacement of the box is pre-/100 vented.

In applying the box to the conduit-pipe it is only necessary to separate the nuts h and ? sufficiently to permit the end wall flanges 4 and lugs 14 to pass therebetween.

What I claim as new, and desire to secure

by Letters Patent, is-

1. An outlet-box for conduits provided with an open side and an open slot in its end extending inwardly from said open side, and 110 STITE STATES TO COLOR

having on opposite sides of said slot inwardly-extending flanges; and a cover for the open side of the bex having a flange adapted to occupy the open end of said slot, and of a less thickness than the end wall flanges on opposite sides of said slot.

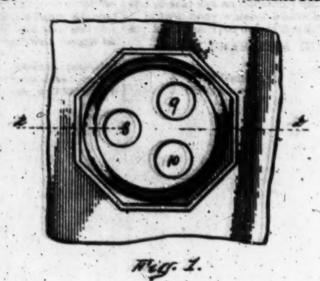
2. An outlet-box for conduits provided with an open side and an open slot in its end extending from said open side, and having on

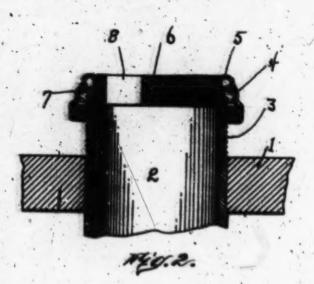
TITO WIGHT And it the spirit about

H. A. GILBERT.

949,628.

Patented Peb. 15, 1910.





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MANOLD A. GILBERT, OF NEW YORK, M. T.

COMBUIT-OUTLET

949.628.

idention of Letters Patent.

Patented Feb. 15, 1910.

ion Shid June 94, 1860. Serial No. 504,683.

To all whom it may concern:

Be it known that I, Hanozo A. Grazzer,
a citizen of the United States, residing at
Brooklyn, in the county of Kings, city and
5 State of New York, have invented certain. new and useful Insprovements in Conduit-Outlets, of which the following is a clear, new and useful Im full, and exact do

The object of this invention is to simplify 10 and improve the outlet end of ordinary con-duits for interior or other wiving, to elimi-nate the necessity of using outlet bases or condulets at the outlet from the main con-

duit.

In carrying out my invention, I provide an insulated plug, preferably of fiber which is adapted to be secured in place by the outlet nut or bushing, which is generally placed at the end of a conduit to protect the wires from the charp edges thereof. This plug of insulation is provided with one or more boles, as may be desired, which will depend of course, upon the sequence of wires it is desired to bring into a room from a given

The scope of my investion will be pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of a conduit equipped with 80 my invention. Fig. 2 is a section on line 2 9 of Fig. 1.

rawings, the floor is represented In the by the reference numeral 1; the pipe or conduit 2 is provided with the usual threaded end 3, a bushing 4 of the hexagonal aut type with a curve or rounded edge 5, is provided for the end of the conduit, the insulating 35 end 3, a bu

for the end of the conduit, the insulating plug 3 is provided with an annular rim? at a slight distance from each of the surfaces of the plug. The plug is provided with a perimeter of such shape and contour that it will fit the opening in the outlet bushing 4. Holes 8, 9 and 10, three in rember in the present instance, are shown, for the outlet of the wires although the number of holes may obviously be varied. The out-

standing rim 7 of the plug is located as shown in the drawings, preferably for the purpose of providing a depending insulating part within the piping to make it prace to tically impossible for any wiring to come in contact with the pipe near its outer end.

The use of this device will be obvious to

one skilled in the art in view of the state-

ment in the fore part of the specification.

I would call attention to the fact that the nut or bushing 4 can be secured in place by threading without rotating the bushing, so that the wires may be brought through the plug, and the bushing inserted without turn-60

I claim as my invention:

1. The combination with an esterorly threaded outlet conduit, and its interiorly threaded bushing having a lip overhanging the end of the conduit, an apertured plug of insulation ic welv fitting within the bushing and means for securing the same in place upon and by the threading of the bushing

into place.

2. In combination with an outlet bushing sail combuit, an apertured plug of insulation loosely fitting within the orifice from the bushing, and provided with an extending rim adapted to fit against the end of the combuit, and against which the bushing will bear to hold the same in place.

3. In combinaion with an outlet bushing and conduit, an apertured plug of insulation fitting within the orifice from the bushing. and provided with an extending rim adapt ed to fit against the end of the conduit, and against which the bushing will bear to held the same in place, said insulated plug extending below its rim into the conduit.

Signal at New York city this 21st day of June, 1900,

HAROLD A. GILBERT.

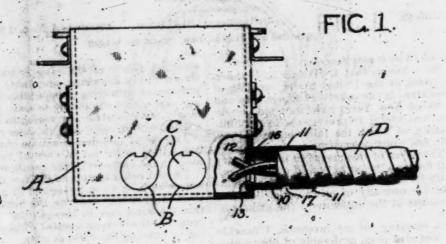
F. WARREN . WRIGHT, THOMAS G. TURNER.

E. G. APPLETON.

CONNECTOR.

1,192,150.

Patented July 25, 1916



FIC. 3 0 10

FIC.6.

FIC.4. "

Ernest G. Appleton

Come Turker

REPORT O. APPLICADE; OF CHICAGO, ILLIEGIE, AMESINGE TO CHICAGO FURE MANUFAC TURING COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS.

COMMISCION

1,192,150.

tion of Matters Pe

Patented July 25, 1916.

Application filed December 10, 1914. Serial No. 979,000.

To all whom it may concern:

Be it known that I, Ensure G. Arramon,
a citizen of the United States, residing at Chicago, in the county of Cook and State of s Illinois, have made certain new and useful Improvements in Connectors, of which the following is a specification.

This invention relates to an improved connector for securing various electric con-10 duits, including armored cable, fickible metallic conduit, and rigid conduit, to outlet boxes, steel cabinets, or the like.

The object of the invention is to provide a connector which is simple in construction
is and cheap to manufacture, which may be
quickly and tasily applied to the cable and
the box, and which provides a strong mechanical connection between the cable and the box and also a superior electrical con-

In the accompanying drawings, Figure 1 is a side elevational view partially in section showing a cable and a junction box secured together by a connector embodying the features of my invention. Figs. 2 and 3 are respectively a side and an and elevation of a thimble forming one element of the connector. Figs. 4 and 5 are respectively a side elevation and a transverse sectional view so illustrating the clamp member of the connector. Fig. 6 is a sectional view illustrating a construction adapting the connector for association with openings in the box of larger diameter than the connector.

The preferred embodiment of the inven-tion will be herein described in detail, without any intention, however, of limiting the invention to the precise details disclosed, except as specified in the appended claim.

In the drawings, A indicates a junction

box having the usual knock-out openings B which are originally closed by plugs C.

D indicates a flexible conduit.

The connector comprises a thimble 10 The connector comprises a thimble 10
45 adapted to pass through a knock-out opening in the box, and a dual clar pp 11, one end
of which grips the said thimble and the
other end of which grips the conduit. The
thimble 10 is provided at its inner end with
56 a stop shoulder in the form of an annular
flange 12 which lies along the inner face of
the box wall around the opening B. The
thimble is also provided with an external
annular groove 13, which lies along the outer,
55 face of the box wall when the thimble is in

place. The thimble may be formed in different ways, one way being to roll a piece of sheet metal into cylindrical form with the edges abotting as seen at 14 in Figs. 2 and 3. The clamp 11, if desired, may also be formed from a single piece of sheet metal rolled into cylindrical form, thereby providing a longitudinal slot 15 running throughout its length. The inner and of the clamp is preferably turned in slightly, as indicated at 16, as to provide a flance to engage in the groove to provide a flange to engage in the groove 13 of the thimble. The clamp is partially divided by a transverse slot 17 into two independent clamping sections. Each of these sections is provided with a pair of approximately parallel ears 18 at opposite sides of the slot 15, and each pair of ears is arranged to be drawn together by means of a screw 19 passing loosely through an opening 20 in one of the ears and threaded in an opening 31 in the other ear. Preferably, these openings 20 and 21 are punched son smaller than required and are then flanged out as at 22 to provide the equivalent of a thicker metal.

In the operation of securing a cable or conduit in place, the thimble 10 is passed through the opening B from the inside of the box, the clamp 11 is passed over the thimble until the flange 16 seats in the 88 groove 18, and the inner screw 19 is tightened up to contract the inner section of the clamp upon the thimble. The cable D is now inserted into the outer end of the clamp, the end of the thimble 10 forming a stop shoulder against which the end of the cable abuts. The outer screw 19 is now tightened up to grip the cable. The shoulder or flange 12 on the thimble prevents the thimble from being pulled out of its opening. When the 95 knock-out opening B in the box is of larger diameter than the connector, a pair of dished washers 28; shown in Fig. 6, is provided to fit around the thimble 10 and within the knockout opening B, said washers in 100 effect constituting a continuation of the box wall. The operation of associating these washers with the other parts in securing a cable will be apparent and need not be described. 105

It will be seen that my improved connector is simple in construction and cheap to manufacture, and that it may be quickly applied and forms a very strong connection for the cable or conduit.

. 110

man to an layer broom to many signification? The factor of professional or stone ARMINE THE SECOND MICHAEL AND of reaching memory of the lander the terms in an artistic or and Terry of a second to have the month of them the property described the second of the s The first as against wife administration of the control of the con to make district in SI was lakened white the above and in the street of the business of the contract of the street business of the former of the Lorentz of the service of the service of the control of the line of the service o a purious as squad tobace street s and and theretill are elected for an med where the last with a 20 Learning transport was at him of expension banda man ann dar sammer ann 121.

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Harris Kolmin Car

L. E. WEBSTER.

JUNCTION BOX COUPLING FOR ELECTRIC WIRE CONDUITS.

1,945,077.

Patented Oct. 30, 1917.

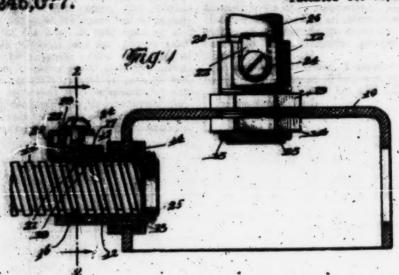
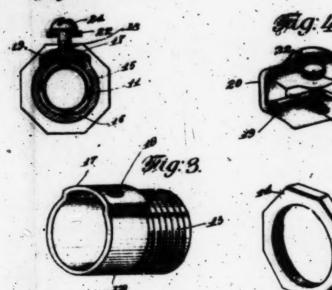


Fig: 2.



Witness John J. Kiccol

3nuento

Ollgoney Ragrane

LEWIS E. WHISTER, OF WILKES-BARRE, PRINCETLVANIA, ASSIGNOR OF ONE-FIFTH TO WILLIAM BULLOCK, ONE-FIFTH TO CHARLES M. HELFRICH, ONE-FIFTH TO FRED-REICE W. EDDY, AND TWO-PIPTES TO JOHN M. PARRY, ALL'OF WILKES-BARRE. MESTLVANIA, COPARTNESS TRADING UNDER THE NAME OF WEBER MANUA PACTURING COMPANY.

JUNCTION-BOX COUPLING FOR ELECTRIC-WIRE CONDUITS.

1,245,077;

settintion of Letters Patent. Patented Oct. 30, 1917.

led October 14, 1925. Serial No. 85,760.

To all whom it may concern:

Be it known that I, Lawre E. Wassrus, a citizen of the United States, residing at Willian-Barra, in the county of Luserne and State of Pannsylvania, have invented a new and useful Improvement in Junction Box Countings for Electric-Wire Conduits, of seplings for Electric-Wire Conduits of

illowing is a specification.

Ities relates to electric wiring
has particular reference to

attaching conduits to outlet or This inve

thods of attaching conduits to outlet or etion boxes. One object of the invention is to provide a spler for the box and conduit, simple in coupier for the box and conduit, simple in 15 structure, ckeap to manufacture, and forms a permanent clamp not easily loosened by accident. Another object is to provide a clamp which may be easily applied to the box and in which the conduit is more se-20 curely held than in the ordinary forms now in use. Another object is to provide a cou-pler which permits of more or less adjust-ment with relation to the interior of the box, so that the coupler occupies a minimum as amount of space within the box.

Referring to the drawings:

Figure 1 represents a sectional elevation of an outlet box with conduit attached;

Fig. 2 represents an end elevation and so section on the line 2-2 of Fig. 1;

Fig. 8 is a view in perspective of the cou-Fig. 4 is a view in perspective of the cou-

pler jaw; Fig. 5 is a view in perspective of a clamp-

ing nut.

As shown in Fig. 1, the outlet box is indicated at 10. The conduit, which is the usual flexible armor sheath formed of spiral 40 convolutions, having a surface like that of a screw thread, is indicated at 11. The coupler includes a cylindrical alcove

12, which is attached to the box, as shown in Fig. 1, by two clamping nuts 13 and 14, 45 which engage a threaded portion 15 of the sleeve. As shown in Fig. 1, this arrangement permits by manipulation of these nuts the extension into the box of the sleeve to any desired extent. The sleeve is provided so with a projection 16 adapted to engage be-tween the threads of the conduit, and dia-metrically opposite this projection is a re-

com 17, in the center of which is a threaded sporture 18. Within this recess 17 is located one extension 10 of a U-shaped member 20, 55 this extension forming a clamping jaw for this extension forming a clamping jaw for the conduit; it is provided with a projection 31 adapted to enter between the threads of the conduit. The upper extension 22 of this member is provided with an aperture so 38 through which the clamping screw 34 is freely movable. The clamping screw 34 is a threaded engagement with the aperture 18 of the aloeve and the lower end of the screw bears upon the extension 19 of the 65 jaw directly above the projection 21, the aperture 38 and projection 21 being in register with each other as shown.

In the structure thus described the Ushaped clamp indicated generally at 20 has 7% its member 19 positioned parallel with the conduit. The screw exercises a direct thrust against the jaw, giving a maximum of pressure to the jaw. By means of this parallel positioning of member 19 the bite of the jaw 76 is extended over a considerable surface of the parallel position of the parallel surface of the the conduit, which is of relatively woft material and the conduit will not be injured therefore, when the screw is turned as far as it will go. In the construction shown, a 80 considerable latitude of movement is allowed the jaw 20. so that the device will handle variable sizes of the conduit. By providing the extension 22, through which the screw 24 passes, the positioning of mem-ber 19 parallel with the conduit is assured and a further advantage is that the jaw is always permanently attached to the sleeve, so that it is not necessary to fit there parts together in the work of installation.

An eyelet 25 is provided at the interior end of the sleeve to limit the movement of the conduit into the box or through the sleeve and to provide a rounding and safe edge to prevent abrasion of the insulation. 36

As shown in Fig. 1, the coupler may also be utilized to attach the box to an ordinary gas fitting, such as the vertical pipe indicated at 26.

100

I claim:

1. In combination, an outlet box, a conduit, and a coupler for the box and conduit. the coupler including a sleeve to receive the conduit, a clamping screw, a U-shaped jaw, one committee of said jaw having a projection adapted to compare the conduct instruments of the conduct instruments of the conduct instruments of the conduct of the conduc

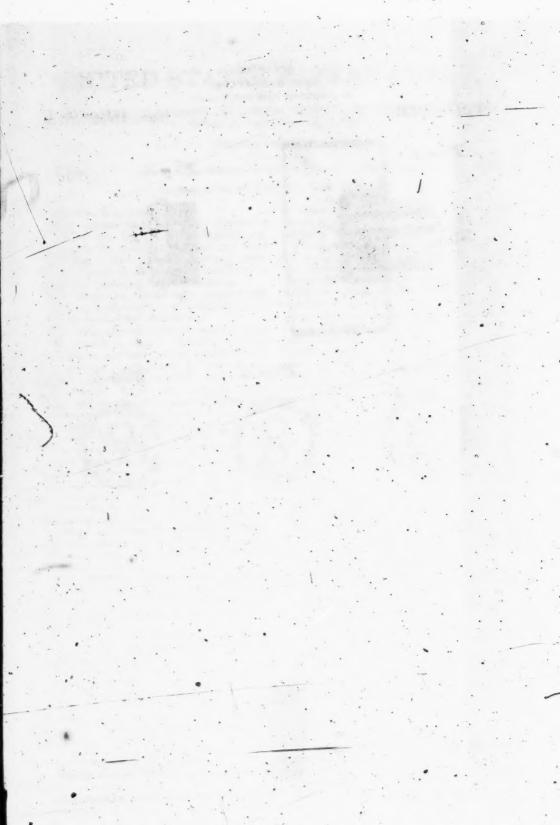
dail, and a complex for the box and condust, the complex including a depart of a ceive the condust, a thought of the threaded arguments with the store, a Uthreaded for the condust, and the jave astending into the path of the and of the server to those the market, and the cocourt reduction having a pathon, and the outer reduction having a pathon, and the

A transfer of the class described comprising a slave to remire the emobilities the ing a reason on its inner from at we and thereof, a Unknown class of mid above with one entercion thereof disputed in mid recess and the other extension which the alcove and parallel with its impitation axis the present portion of said above and the critiving entersion of the damp having registering sportures, and a very extending through the aparture in said classy and having through the aparture in said class and

5. A complex of the class described comprising a sleeve to receive a conduit having pa recess on its issuer face at one and thereof, a U-shaped class structling the edge of the recessed end of taid sleeve with one exten-

A A complete of the street designation of the principle of the complete of the

LEWIS E. WEBSTER.



A. CASPER.

COMBUIT CONNECTION.
APPLICATION FILED APR. 17, 1917.

1,279,256.

Patented Sept. 17, 1918.

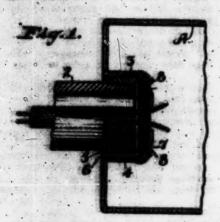


Fig.2



F44.3.



Flg.4.



E44.5.



WITH BEEFE

9.6 Hiedner

Fig.6



Albert Casper

ATTHER

MALLEN OF CHIEF TO WILLIAM IL OF VALLETO, CALIFOR IR, OF VALLETO, CALIFORNIA

1,979,986.

Patented Sept. 17, 1918.

A Sted April 17, 1827. Bertel Bo. 188,680.

Be it knows that I, Assess Casses, a string of the United States

invention comists of the parts and natruction and combination of parts as after more fully described and skimed, o socompanying draw-

Figure 1 is a side elevation, partly in section, showing the preferred form of conduit connection employed.

Fig. 2 is a side elevation of a bushing supporting an insulating ring.

Fig. 3 is a front view of Fig. 2.

Fig. 4 is a similar view, showing an insulating member in the form of a disk having two openings therein to permit separation of the incoming wires.

coming wires. Fig. 5 is a front view, showing and disk having three openings provided

ing disk thaving three openings.
Fig. 6 shows a conduit opening provided with a knock-out disk.
Referring to the drawings in detail, A indicates the easing of an outlet box, service can, switch cabinet, or like device, which is provided with a suitable number of conduit openings or knock-outs to permit the hor to

commented with pipe operhuits, such as own at S, through which the incoming or tigolog wires are passed.

the bushing in the words, are will, in other words, are words of the canadar, threaded should not of this construction can a it permits the different the canadary of the construction can a street of the construction can a street of the canadary of the ca a as it parm

be seen as it permits the different threaded parts to be serowed home and a thorough as band connection preduced.

The screwing of the bushing into position within the annular shoulder 3 and the insertion if a pipe is accomplished in one operation; that is, the pipe is first inserted in the opening within the annular shoulder in a position as queentric therewith as possible. The beaking is then inserted from the inside and us the threads will engage both the pipe and the annular flager, it can read. the pipe and the annular flange, it can read-ily be seen that both connections are made at one time and that it will be impossible to re-move the bushing from the axterior as the tapering pipe tap threads employed will not permit. it.

permit: it.

The insulating ring or disk employed may
be rigidly secured in the inner end of the
bushing, if desired, but is preferably loosely
bushing, if desired, but is preferably loosely and turnebly mounted between a plurality of inwardly turned lugs 8, formed on the end 1 of the bushing. These lugs may be cast integral with the bushing or asparately secured and may, therefore, he best over the invalidation when the distribution with the course of th iniulating ring or disk to prevent its acci-dental removal when once inserted. The 1

1. In combination with an outlet box having an opening and an integral interiorly
threaded circular flunge surrounding the
opening, a bushing having interior threads
to engage a pipe and having exterior threads

mony whereof I have hereunto set as my hand in the presence of two subscribing

ALBERT CASPER.

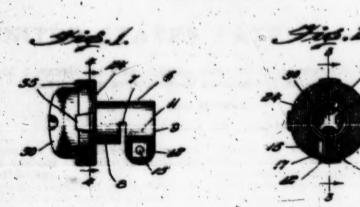
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W. W. HEALEY.

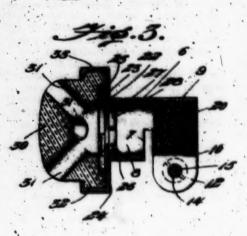
May 25 , 1926.

C. V. PERRY

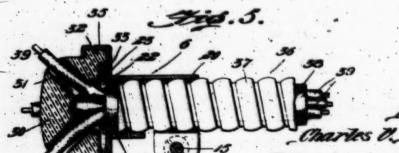
END PITTING Filed June 4. 1924











CHARLES V. PEREY, OF WEST HAVEN, COMMECTICUT, ASSIGNOR OF OME-HALF TO LEGWARD P. BOSWORTH, OF BARRINGTON, REIODE ISLAND.

BUD FITTING.

pplication filed June 4, 1964. Serial No. 717,727.

from pipe fittings.

The emential objects of my invention, in addition to the ends commonly sought, are to enable the use of the fitting upon a flexible cable or the like without requiring the usual threaded connector; to insure a firm engagement of the fitting with the cable; to prevent injury to wire insulation during installation; and to attain these ends in a simple and inexpensive structure.

To the enumerated ends essentially my inrention consists in such parts and in such combinations of parts as fall within the

scope of the appended claim.

In the accompanying drawings which

form a part of this specification

Figures 1 and 2 are a side and a rear eleration respectively of an end fitting embodying my invention.

Figures 3 and 4, a section on line 3-3 of Figure 2, and a section on line 4-4 of Fig-

are I respectively, and

Figure 5, a section of the fitting engaged with the end of a cable taken on a line 3of Figure 2, and showing the cable in side

elevation.

In detail my fitting comprises a thin meallic sleeve 6 having an intermediate trans-erse slot 7 forming a shank portion 8 and in end portion 9, the latter being longitudially split as at 10 to form a clamping porion having upon its resilient sections 11 parilel projecting cars 12 provided with perorations 14 adapted to receive a clamping crew 15 whose head 16 engages one ear, thile a nut 17 thereon engages the other ear. The interior of the clamping portion 9 of he sheeve is provided with knurls 90 or is therwise roughened. Lugs 22 on the inner and of the sleeve pass through slots 23 in a late 24 and terminate in bent ends 25 clampig the latter. The slots are radially disosed around a central circular hole 96 in

My invention relates to end fittings for the plate 24. The hole 26 is of less diameter sectrical conduits or cables in distinction than the sleeve 6 so that there results an integral inwardly directed flange 27 against which abuts a spring guard ring 28 frictionally engaging the sleeve and serving as a so grip for the wires and prevents contact of the insulation with the sange 27, said ring being of greater diameter than the opening through said flange, as seen in Figure 3. The transversely rounded inner periphery of the 85 ring is of less diameter than the hole 26. An insulating head 30 has usual openings 31 and is provided with a lateral peripheral shoulder 32 at its base and has a circular recess 33 in the latter. The head 30 rests on the plate 60 24 and the shoulder 32 is loosely overlapped by fingers 35 integral with the periphery of the plate.

In Figure 5 is shown a cable or conduit 36 comprising the usual ribbed sheath \$7 sur- 68 rounding the insulation 38 and wires 30. The conduit is clamped by the serew 15 and the regilient sections 11 within the sleeve 8. the knurls 20 assisting in retaining the cable against longitudinal movement in one direction and the flange 27 in the other direction. The ring 28 when present not only guides the wires but protects the insulation from contact with the flange 27. When said ring is absent the flange 27. affords an abutment 73

for the end of the sheath 37.

In an end fitting for cables, a sleeve comprising a shank portion and a longitudinally split camp portion, a head plate provided so with a central opening fixed to the end of the shank portion and forming an internal annular flange, a resilient split guard ring frictionally mounted in the shank portion and abutting against the flange, and an in- 85 sulating head attached to the plate.

In testimony whereof I have affixed my

signature.

CHARLES V. PERRY.



Opinion, Hulbert, D. J.

SAME TITLE]

Bohleber & Ledbetter, Esos., Solicitors for Plaintiffs, 15 Park Row, New York City.

WILLIAM BOHLEBER, Esq., and F. H. FASSETT, Esq., of Counsel.

DARBY & DARBY, Esqs., Solicitors for Defendants, 405 776 Lexington Ave., New York City.

FLOYD H. CREWS, Esq., of Counsel.

Theré will be a decree:

- : 1. Sustaining the validity of claim #i, and
- 2. Holding invalid claim #2 of Letters Patent #1,769,-947, and
- 3. Dismissing the Bill (a) as to contributory infringement, (b) for an injunction, and (c) for an accounting.

777

The Thomas & Betts Company of Elizabeth, New Jersey, and the National Electric Products Corp., of Vittsburgh, Pa., are New Jersey and Delaware corporations, respectively.

Electrical Fittings Corporation and Joselson Sales Corporation are New York corporations, each having its principal office at 27 Warren Street, New York, N. Y., in this District.

Since the incorporation of the latter in February, 1933, the defendant Samuel Joselson and Belle Joselson, his

wife, have been President-Secretary and Treasurer, respectively, and sole stockholders, and together with Jack Joselson, a brother of Samuel, constituted the board of directors of Joselson Sales Corporation whose assets were acquired and liabilities assumed by the defendant Electrical Fittings Corporation upon its organization about June 7, 1935. Joselson Sales Corporation has not been active since.

Samuel Joselson is President-Secretary, Irving Tratter, Vice-President-Treasurer, and together with Edwin J. Schneider, constitute the board of directors of the defendant Electrical Fittings Corporation. Of its outstanding shares of capital stock, Joselson owns one-half and Tratter and Schneider, one-quarter each.

On or about February 15, 1937, Efcor Sales Corporetion was organized as a New York corporation. Tratter is President and Secretary, Schneider, Vice-President, and Joselson, Treasurer, and they are all of its directors and own the shares of its capital stock in the same proportion as in the Electrical Fittings Corporation.

Schneider and Tratter are connected with the Eastern Tube & Tool Company which manufactures armored cable and fibre bushings and Schneider is the President thereof.

On December 7, 1927, Otto A. Frederickson of Weathersfield, Connecticut, filed an application in United States Patent Office, Ser. No. 238,356 for "armored electric cable" and on October 9, 1928, there was issued to National Electrical Products Corporation, one of the plaintiffs, as his assignee, Letters Patent #1,687,013.

Claims 2, 7, 8, 9 and 10 of this patent were held valid by the Circuit Court of Appeals (Second) in National Elec. Products Corp. v. Circle Flexible Conduit Co., 62 Fed. (2) 996.

Frederickson pointed out that armored cables in use

prior to his patent were open to serious objections; usually they consisted of two or more conductors enclosed in an interlocked covering of insulated material of braided or woven fabric inserted in a spirally wound metallic jacket or sheath which, in commercial use, was cut off some distance from the end of the enclosed conductors in order to make attachments thereof to electrical fixtures. It was further necessary, after cutting the metallic sheath, to sever the interlocked fabric, also by cutting, and injury to the insulation covering the conductor wires was likely to result, or, in any event, the cut end portion of the metallic sheath left burns or sharp edges liable to penetrate or cut into the insulation, thus creating a short circuit.

782

The important feature of the Frederickson patent consists of an insulated material of a fibrous nature and associated with the end of the cut metallic of the armor, jacket or sheath, is a sleeve or ferrule to be interposed between the insulated conductor and the interior of the metallic sheath, to avoid all cutting action by the sharp edges or burrs.

783

On or about July 2, 1928, James M. G. Fullman, filed an application in the United States Patent Office, Ser. No. 295,559 for "Connecter for Electric Conduits" and Letters Patent #1,769,947 were granted and issued July 8, 1930, to National Metal Molding Co., assignee of Fullman.

Prior to the alleged infringement complained of in this action. National Metal Molding Company, by instrument recorded in the Patent Office July 16, 1930, assigned said. Letters Patent to National Electrical Products Corporation, one of the plaintiffs herein, which is now vested with the legal title, subject to an exclusive license granted to the Thomas & Betts Company (recorded Nov. 25, 1933) and certain sub-licenses granted by the latter to manu-

facture and sell devices embodying the improved inventions claimed thereunder. These devices are two in number, designated as "set screw" and "clamp" connectors. In the specification of the patent in suit, Fullman

states:

"In connecting electrical conduits and armored. cables to outlet boxes and other electrical fittings it is usual to cut away the conduit wall or the sheath of the cable and to pass the unsheathed conductors into the box for making the desired electrical connections. In the use of metallic-conduits, and particularly in the case of so called flexible metallic armored cable, this leaves a more or less ragged metallic edge which often abrades or cuts into the insulation on the exposed conductors, and is likely to cause short circuits and other injurious effects. In order to shield the exposed conductors from the edge of the cutaway metallic armor it has been proposed recently to provide a bushing of insulating material which can be slipped over the exposed conductors where the armor is cut away, and having a shoulder bearing against the sharp metallic edge of the armor, as shown and described in Letters Patent No. 1.687,013, dated Oct. 9, 1928. (Frederickson Patent) When such a bushing is used at the joint between an armored cable and an outlet box with connectors of the present usual types, it is largely or altogether hidden within the connector, so that its presence is not apparent to an inspector or other observer. The present invention provides an improved connector binding the cable to the outlet box and having means for holding the insulating and protective bushing in place, which will permit the bushing to be visible and thus permit ready inspection of the system."

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The claims in suit are:

- "1. The combination with an armored cable, of a bushing of insulating material having a tubular barrel portion contained within the cable armor and a shoulder bearing against the end of the armor, and a connecter and means for securing it to the cable, said connecter having a portion projecting beyond the end of the cable armor and having inwardly projecting fingers adapted to bear upon the bushing shoulder and retain the bushing in place.
- "2. The combination with an electrical conduit, of a bushing having a tubular barrel portion contained within the conduit and a shoulder bearing against the end of the conduit, and a connecter and means for securing it to the conduit, said connecter having means for retaining the bushing in place while leaving it visible to ocular inspection."

There was offered in evidence (Plaintiffs' Ex. 17) a type of set screw connecter conceded to have been in use for many years and of which the set screw type of plaintiffs' connecter is a counterpart in every particular except one and in that respect the improvement constitutes the basis of the claimed invention.

The connecter is a metallic tube which has a screw or a clamp at the base and a circular threaded head which snugly fits into a circular opening of an outlet box. The armored cable passes through the connecter which is then fastened to it on the outside of the outlet box by the set screw (or clamp) and is further made fast on the inside by screwing on a locknut. In the old type of connecter, the fiber bushing which was put over the sheath of, and between the connecter, and the armor cable, before the

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locknut was screwed on, was not at all times visible because the diameter of the mouth of the connecter is somewhat less than that of the barrel of the connecter itself and the insulated wires passing through the mouth fitted it snugly.

In the plaintiff's invention the rim at the mouth is cut down in three places so that the remaining portions project inwardly like "fingers" as the plaintiff, in fact, designates them, adapted to bear upon the bushing shoulder and retain the bushing in place. The fiber bushing, usually of red color, may be seen through the space between the fingers called "peep holes." The "clamp" connecter differs somewhat in construction from the "set screw" but that difference is not of any real materiality in the consideration and disposition of the issues here involved.

The National Electrical Code containing "Regulations of the National Board of Fire Underwriters for Electric Wiring and Apparatus" approved by American Standards Association, effective Nov. 1, 1933, contains the following provision:

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"ARTICLE V-Section 505-Armored cable.

- (a) Approved armored cable, types AC or ACL may be used as the wiring method, if the provisions of the following paragraphs of this section are observed.
- (e) Approved outlet boxes or fittings shall be installed at all outlet and switch points as provided in paragraph (a) of section 512. The cable shall be continuous from outlet to outlet, or from fitting to fitting, and the armor shall be mechanically and electrically connected to all fittings in a manner to sub-

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stantially close the openings at entrance points and to hold the cable securely.

(g) At all points where the armor terminates an approved fitting shall be provided to protect wires from abrasion, unless the design of the outlet boxes or fittings required by paragraph (e) of this section is such as to afford equivalent protection, and in addition, an approved insulating bushing or its equivalent approved protection shall be provided between the conductors and the armor. The connector or clamp by which the armored cable is fastened to boxes or cabinets shall be of such design that the insulating bushing or its equivalent will be visible for inspection."

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Section 512, provides:

"(a) At each outlet, switch, or junction point of conduit, surface metal raceway, armored cable, electrical metallic tubing, or non-metallic sheathed cable, and at each outlet and switch point of concealed knob-and-tube work, an approved box shall be installed. At least six inches of free conductor shall be left at each outlet for the making up of joints or the connection of fixtures except where conductors are intended to loop through sockets, receptacles and similar devices without joints."

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The National, Electrical Code, effective Nov. 1, 1935, additions the foregoing quoted provision by changing the esignation of paragraph (g) to (d) and adds the following sentence:

"This bushing will not be required with lead cov-

Plaintiffs' counsel, during the trial, and in their brief, stressed as one of the important elements supporting the patent in suit, the visibility of the red bushing through the peep-hole openings of the connecter, but it was not until after the plaintiff National Electric Products Corporation had acquired the patent rights of Fullman that the regulations of the National Board of Fire Underwriters were adopted, upon which the plaintiffs' counsel now further emphasizes the importance of that element.

Defendants cite in their answer to the bill of complaint, 22 patent exhibits. In their bill of particulars it is stated that they would rely upon all of those thus listed to show the state of the art and anticipations, and subsequently, they gave formal notice that three additional patents would be relied upon, making a total of 25. On the trial, however, only ten were put in issue, of which 6 were considered by the Patent Office during the prosecution of the application which eventuated into the patent in suit.

A careful analysis of the patents of Fullman, #1,769,947; Frederickson, #1,687,013; Goehst, #681,416; Klein, #799,989; Freeman, #848,819; Hinsdill, #849,395; Gilbert, #949,628; Appleton, #1,192,150; Webster, #1,245,677; Casper, #1,279,256 and Perry, #1,585,688, has been made and the results are shown upon schedules appended hereto. All of them claim a bushing and visibility thereof. There are only two or such patents which need be discussed in any detail.

Specifically the extended elements of Casper do not bear upon, and they do not retain the bushing in place, such retention being indicated by threaded members between the bushing and a flange of the box wall. Further, the bushing in the Casper device does not bear upon the armored cable but upon a conduit which is not an element of the first claim of the Fullman patent.

In the Perry device the bushing is exterior of the ar-

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mored cable and has a plurality of fingers extending away from the cable which do not bear upon the cable, thus these fingers are a part of the bushing and not a part of the connecter.

While the other elements of Claim #1 in suit may be found separately in the defendants' exhibit patents, in none of them is found the particular type of fingers having the double function of bearing upon the bushing and retaining the bushing in place; in fact, fingers are not found in defendants' exhibit patents having either one of these functions.

As the mechanical construction of these fingers is different from those of the exhibit patents and as they perform functions not found in those patents, the Court is of the opinion that they are more than a simple mechanical change from the prior art and that they exhibit an exercise of an inventive thought, and that, therefore, claim #1 is valid.

Claim #2 of the patent in suit is broader than claim #1. It contains no reference to a connecter having fingers but refers to "a connecter," "means for securing it to the conduit" and "means for retaining the bushing in place" all of which elements are found broadly in the exhibit patents. This claim includes also an electrical conduit, which is found in the patents of Goehst, Hinsdill, Gilbert and Casper—the other patents omitting this element.

The Gilbert device includes practically all of the elements of this claim; while the Klein and Freeman devices do not include a conduit, they have otherwise the elements of the claim.

One of the elements of this claim is the visibility of the bushing (not mentioned in claim #1).

Having in mind the exhibit parents and the breadth of description of the elements of this claim, the Court is 800

of the opinion that it would require but ordinary mechanical ability to produce the device of the claim with a knowledge of the prior art, and that claim #2 is invalid.

The defendants contend that the only difference between the set screw connecter in use for many years, and that shown in the patent in suit, is the fingers projecting inwardly and the little niches in the mouth, which are such trivial modifications that it does not amount to invention.

The widespread commercial success of a patented invention as indicated by its general acceptance throughout the trade, is a motivating factor in resolving any doubt of the novelty and patentability of the device.

It is conceded by plaintiffs that they do not seek to have the claims in the Fullman patent given a construction broad enough to prevent anyone from using old and unpatented bushings, cables or conduits, with the peephole connecters furnished by the plaintiffs or their authorized licensees which, of course, they could not do. (Bassick Mfg. Co. v. R. M. Hollingshead Co., 298 U. S. 415.) There is no proof in this case that any effort has been made to effect price control. The plaintiffs' connecters are not, in my opinion standard articles of commerce. There is no evidence in this case that commercial success was due to unusual promotion efforts. National Electric Products Corporation is only a nominal plaintiff having granted to Thomas & Betts Company, as exclusive licensee, the right to sue and "to retain for its sole use and behoof any damages or royalties collected as a result of any such suit."

The bill of complaint alleges contributory infringement. Sub-licenses were granted by the plaintiff to:

M. B. Austin Company of Chicago, Ill.;

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The Rattan Manufacturing Company, New Haver, Conn.; .

Andrew Perry Company, Terryville, Conn.;

Kwikon Company, Chicago, Ill.; Bridgeport Switch Company, Bridgeport, Conn.;

Appleton Electric Company, Chicago, Ill.;

Steel City Electric Company, Pittsburgh, Pa.;

Conduit Fittings Corporation, Chicago, Ill. (Who succeeded the Chicago Steel Tank Company of that city which had a license under the patent at one time):

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Reco-All Steel Co., South Bend, Ind. (Succeeded the All Steel Equipment Company of Aurora, Ill., and the Appleton Manufacturing Company of South Bend, Ind., both of whom had licenses at one time).

A license was also issued to the Sterling Manufacturng Company "to manufacture and sell the connecters" nder the patent in suit. The license provided in pararaph 11:

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nor shall the acceptance of royalty payments after breach or notice of termination preclude the exercise of any right of the Licensor hereunder. The termination of this agreement, either by cancellation or otherwise, shall not release the Licensee of any obligations accrued hereunder to the date such termination becomes effective, either for the payment of royalties or otherwise."

Paragraph 4 of the license contract, provides:

"4. The Licensee convenants and agrees to pay to the Licensor, or to the order of the Licensor, five

per cent. (5%) of all sales of Connectors made hereunder, • • on or before the twentieth day of the next succeeding calendar month after each quarter during the continuance of this agreement • • . Each quarterly payment is to be accompanied by a verified statement from the Licensee to the Licensor setting forth the number of pieces of each size and type of Connectors sold during the preceding quarter and the net selling prices thereof."

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The Thomas & Betts Company, since its organization in 1917, has been engaged in the manufacture and sale of small electrical specialties and fittings for the installation of electrical work in buildings, including these connectors manufactured under the patent in suit, and bushings.

From March 1, 1932, up to and including the month of October, 1937, plaintiff Thomas & Betts Company manufactured and sold approximately 19,613,377 connecters; plaintiff, National Electric Products Corp., has manufactured and sold approximately 6,400,000 connecters, and the licensees of Thomas & Betts Company, during such period as they have been licensed, manufactured and sold approximately 44,353,892 connecters, making a total of 70,377,000; the gross selling price of which is in excess of \$1,500,000.

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The total number of connecters of all kinds seld throughout the United States during said period does not appear in the evidence, but the defendant Joselson testified that, while the customers who purchased connecters from him did not ordinarily specify the character of connecter desired, approximately 90% of all of the connecters sold by the defendants were of the type manufactured under the patent in suit.

The connecters manufactured and sold by the plaintiff

National Electric Products Corporation bore upon each device the word "Patent." The devices manufactured by the plaintiff Thomas & Betts Company were not so marked, but Mr. McMurtrie testified the containers were marked and there is in evidence a label which he stated was affixed to each box of containers bearing the legend 'Pat. July 8, 1930, No. 1,769,947." He further testified that he did not know what practice had been followed by the sub-licensees of his company but there was introduced in evidence by the defendants a label showing a cut of a set serew connecter and the words "Made in U.S. The Thomas & Betts Co., Edizabeth, N.J." and the reference "Cat. No. 240 V" but no specific mention of the patent in suit.

It also appears from a list of inspected electrical appliances published (May 19, 1937) by Underwriters Laboratories, Inc., sponsored by National Board of Fire Underwriters, that those of the plaintiff's sub-licensees listed had their own individual markings. Also, that Eastern Tube & Tool Company, Inc., Brooklyn, N. Y., National Electric Products -Cq., Pittsburgh, Pa., and Walker Bros., Conshahocken, Pa., were among some 23 manufacturers of armored cable and that Thomas & Betts Company are among some 15 manufacturers of connecters so fisted.

This action was commenced October 5, 1935. It is contended by the defendants that the service of the bill of complaint was the first notice which they ever had of the plaintiffs' claim of their alleged infringement.

Immediately after the service of process, the defendant loselson visited the office of the plaintiff's attorney and was shown two connecters which, he testified, he recognized as having been made, one by the Steel City Electric company, and the other by the Chicago Steel Tank, now the Conduits Fittings Corporation (both licensees of the

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Opinion, Hulbert, D. J.

plaintiff) but he was unable to state whether he sold this particular connecter to the jobbers because the manufacturers also sold to the jobbers direct. However, that testimony indicates to the Court that the defendants did not try to excuse the purchase and use of connecters made by Sterling as having been purchased from Steel City and Chicago Steel Tank. Mr. Joselson claims that at the same interview, he was told by plaintiffs' attorney that the Sterling license had been cancelled, which, he asserts, was his first knowledge of that fact, and that since that time he has not purchased any connecters of the kind manufactured under the patent from any manufacturer not listed in the bill of complaint as a licensee. The defendants' answers to interrogatories specify the

connecters which the defendants admit having purchased the defendant Joselson Sales Corporation admits purchases from Sterling in February, March, October, November and December, 1933; January, February, March, May, June and July, 1934; from Appleton Electric Company, August, September, October, November and December, 1934, and March, 1935; from Chicago Steel Tank Company, November and December, 1934, and from Steel City Electric Company, April, May and June, 1935. Defendant Electrical Fittings Corporation admits purchases from Steel City Electric Company in July, August, September and October, 1935.

Plaintiffs, answers to interrogatories set forth that all of the companies from whom these connecters were purchased were licensed under the patent in suit but that the Sterling license, which was issued February 8, 1932, was cancelled on May 10, 1933. It does not appear when Sterling ceased to manufacture or what stock it had on hand on May 10, 1933.

Moreover, plaintiffs' motion for a bill of particulars contains a waiver of any charge of infringement on any

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of the connecters the defendants admit buying, except those bought from the Sterling Manufacturing Company by the defendant Joselson Sales Corporation subsequent to May, 1933.

Therefore, in the last analysis, the issue is whether Joselson, or the corporate defendants, purchased connecters from Sterling with reasonable cause to believe that the Sterling license had been cancelled prior thereto.

Upon that issue the Court is not persuaded that the plaintiff has sustained the burden of proof. It may very well be that when the Sterling Company was retiring from business, as the evidence shows that it did, it had on hand a substantial quantity of connecters manufactured under its license and that the defendants stocked up to meet the requirements of customers for a considerable time thereafter. Certainly, there is no claim since July, 1934, upon which the Court could base an injunction, although purchases were thereafter made during a period of 15 months prior to the commencement of suit. Infringement there may have been as to purchases from Sterling, but the proof is insufficient to justify a direction for an accounting and the appointment of a special Master to take proof of damages.

If a more formal compliance with the provisions of Equity Rule 70½ is desired, submit findings of fact and conclusions of law upon notice of five days.

Dated, N. Y., March 22, 1938.

HULBERT, U. S. D. J. 818

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Opinion, Hulbert, D. J.

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CLAIM #1	FULLWAN	FREDERICKS	Сокнят	KLEIN	FREEMAN	HINDSHLL	GILBERT	APPLITON	WEBSTER	CASTER
Armored cable	x	x	x	x	x			x	x	
Bushing	x .	x.	x	×	x	x	x	x	x	x
Insulated material	x	x	×	x	×					
Having tubular position	×	×	· x	x	x		x	x	x	x
Contained within the armor	x	×		x	×					
A shoulder	x ·	1	. • •	×	x		x	x	A X	,
Bearing against end of armor	x,			x	O.	;			X	
Connecter	x .	*,	x			x	x	x	×	x
Portion projecting beyond end of armor	2	٠,		'x			* *	×	×	x
Inwardly projecting fingers	×		-					- ,		3 .
Adapted to bear upon bushing shoulder	x		7. *	1						
and retains bushing in place	x								1	D
Visibility of bushing (not in claim)	x '	x	x	x	x	×	x	×	x	x

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2 Key: A. Shoulder is not an integral part of bushing but is a separate element.

B. The extended lugs are not an integral part of the connecter, but are carried the and they do not retain bushing in place.

C. Atmored cables but no separate conduit.

D. The fingers do not bear upon the bushing but upon the outside plate of box and they do not retain the bushing in place.

Opinion, Hulbert, D. J.

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CLAIM #2	MAN	RICK	ST		NVP	TIL	TH	TON	TER	2		4	
	FUEL.WA	FREDERICK	COEIL	KLEIN	FREE	HINES	GILBER	APPLE	WEBS	CASPE	PERRY		
ical conduit	-	C	_	C,	С.			C	C	-	C	ő	
ical conduit	X	х	X	. *	x	X	X	X	X	X	×		
ng ·	. x	X	х -	x	Х-	×	х	×	x	×	×	,	
ular position	x	x	x	x	×	x	х	'n	×	x	×		
Othin conduit	x *	x		×	×								
		-			-		.**	0	Α	54	9	1.	
ulder	x			x	x		ж	x	.X		×		
	1.								A	n			
earing against end of conduit	x			x			x		×	x	4	.4	
for securing bushing to conduit	x		x	x	x	x	×	x	x	x	×		
					3					-			
cter	x		×	x	x	x	Σ'	x	x	X	×		
ring means for retaining bushing in place	x		x	×	×	x	. x	x	x	×	×		
ving bushing visible	x		x	x	x	×	x	x	x	x	×		

- A. Shoulder is not an integral part of bushing but is a separate element.
- B. The extended lugs are not an integral part of the connecter, but are carried thereby may do not retain bushing in place.
- C. Armored cables but no separate conduit.
- D. The fingers do not bear upon the bushing but upon the outside plate of the ad they do not retain the bushing in place.

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Final Decree.

At a stated term of the District Court of the United States for the Southern District of New York, held in the United States Court House, Borough of Manhattan, N. Y., on this 27th day of April, 1938.

Present:

HONOBABLE GEORGE MURRAY HULBERT,

United States District Judge.

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[SAME TITLE]

This cause came on to be heard at final hearing on December 14, 1937, upon plaintiffs' bill of complaint and the answer filed on behalf of the defendants and the proofs adduced on behalf of the respective parties, and counsel for the respective parties having fixed briefs, and the same having been duly considered by the Court, and it appearing that the Court is not persuaded that plaintiffs have sustained the burden of proof of contributory infringement as charged in the bill of complaint, and a petition of defendants for a rehearing having been filed, argued by counsel for the respective parties, considered by the Court and on April 23, 1938 denied, it is hereby

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ORDERED, ADJUDGED and DECREED, as follows:

- 1. That James M. G. Fullman was the original, first and sole inventor of connector for electrical conduits described and claimed in claim 1 of U. S. Letters Patent No. 1,769,947, in suit herein.
- 2. That National Electric Products Corporation, plaintiff, a corporation organized and existing under and by

Final Decree.

the of the laws of the State of Delaware is, by virtue mesne assignments from said James M. G. Fullman, we vested with the legal title to said Letters Patent 69,947, subject to an exclusive license granted to The omas & Betts Co., plaintiff, a corporation organized dexisting under and by virtue of the laws of the State New. Jersey and certain sub-licenses granted by the ter to manufacture and sell devices embodying the intrions claimed therein.

3. That claim 1 of U. S. Letters Patent No. 1,769,947 James M. G. Fullman is good and valid in law, and at claim 2 of said Letters Patent is invalid; and that bill of complaint herein be and hereby is dismissed as to contributory infringement, (b) for an injunction, d (c) for an accounting.

HULBERT, U. S. D. J.

Copy received and approved as to form April 26, 1938.

DARBY & DARBY, Attorneys for Defendants.

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Stipulation.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

[SAME TITLE]

It is Hereby Stipulated by and between counsel for the respective parties that the opinion of the Court in this cause may be taken as full compliance with the provisions of Equity Rule 70½ as findings of fact and conclusions of law.

> Bohleber & Leobetter, Attorneys for Plaintiffs.

DARBY & DARBY, Attorneys for Defendants.

Dated: New York, New York, April, 1938.

834 IT IS SO ORDERED.

HULBERT, U. S. D. J.

April 27, 1938.

Defendants' Petition for Rehearing.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

[SAME TITLE]

The defendants, through their attorneys, Darby & Darby, hereby respectfully petition this Court for a rehearing with respect to that portion of its opinion holding claim 1 of the patent in suit valid.

The grounds on which rehearing is asked are the fol-

lowing:

1. The patent in suit bases its claim for novelty entirely on the visibility of the bushing.

Since the Court found that claim 1 is not restricted to the structure in which the bushing is visible, the claim should be held invalid as broader than the disclosure:

2. The Court held on page 9 of the opinion that the extended elements of Casper 1,279,256 "do not bear upon, and they do not retain the bushing in place, such retention being indicated by threaded members between the bushing and a flange of the box wall. Further, the bushing in the Casper device does not bear upon the armored cable but upon a conduit which is not an element of the first claim of the Fullman patent."

It is believed that the Court has misconstrued the structure of the Casper patent due to the language used in that patent. In the Casper patent the element 4 is clearly and definitely a connector as that work is used in the patent in suit, and was used throughout the trial,

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although the Casper patent refers to it as a bushing. Clearly also in the Casper patent the element 7 is a bushing as that word is used in the patent in suit, and was used throughout, the trial, although the Casper patent refers to it as "an insulating ring or disc." Considering the element 4 as a connector and the element 7 as a bushing, which they are as these terms are used in the patent in suit, it is clearly seen from the Casper patent that the fingers 8, which are substantially identical with the fingers of the patent in suit, bear upon the bushing 7, and retain it in place. In fact Figure 2 of the patent in suit is identical with Figure 3 of the Casper patent, and Figure 5 of the patent in suit is identical with Figure 2 of the Casper patent, in so far as these fingers and their relation to the bushing are concerned.

In discussing the Casper patent the Court also drew a distinction between a conduit and an armored cable. The patent in suit expressly states, beginning at page 1, line 98—

"It will be understood that the specific form of the connector may be varied, and it will also be understood that while the invention is of particular advantage in the use of flexible metallic armored cables, it may be used to advantage in the installation of electrical conduits of other forms."

Thus it is seen that the patentee made no distinction between armored cable and conduit so far as his patent was concerned. Also, the prior art patents put in evidence a nost without exception refer to conduit and armored cable interchangeably, and Webster No. 1,245, 077, shows an identical set screw connector used with both.

Applying the well known doctrine that that which in-

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fringes if later anticipates if before, it is thus seen that the Casper patent discloses a peep-hole connector having fingers which perform the identical functions of the finger of the connector of the patent in suit, and perform these functions in an identical manner in combination with other structure which is admitted by the patentee to be equivalent structure.

3. The Court further found on page 11 that there is no proof in this case that any effort has been made to afford price control, and that therefore the widespread commercial success of the patent was a motivating factor in resolving any doubt of its novelty and patentability.

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The Court apparently overlooked the license agreements entered into by the plaintiff Thomas & Betts Co., with its licensees, as admitted in the plaintiffs' answers to interrogatories verified April 13, 1936, defendants' Exhibit D. A copy of one of these license agreements was a part of said Exhibit and it contains the following provisions:

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"5. The licensee agrees that it will offer for sale and sell the Connectors covered by this license only at such minimum prices and on such terms and conditions and in such manner, whether on consignment or not and whether directly or through agents, or both, and if through agents; or both, only pursuant to such form of agents' agreement, as may from time to time be fixed, adopted and followed by the Licensor. The Licensor shall send to the Licensee by registered mail a net price sheet for Connectors, showing such net selling prices, terms, conditions and manner of sale and stating the date on which such prices, terms and conditions and manner of sale shall become effective. After that date the Licensor and Licensee

shall not effer for sale to sell Connectors at lower prices and/or upon terms or conditions or in a manner other than those so fixed by the price sheet. Whenever a change is made by the Licensor in the selling prices or terms or conditions of the price sheet, or in the manner of selling, the Licensor shall send to the Licensee by registered mail or by telegraph notice of such changes, stating the date when such changes shall become effective. After the date so fixed the Licensor and Licensee shall not offer for sale or sell Connectors at lower prices and/or upon terms or conditions, or in a manner or under a form of agreement with agents, which vary in any manner from those so fixed.

6. The Licensor and the Licensee further covenant and agree that neither of them will directly or indirectly grant any rebates, split any commissions, and/or give any secret refunds, concessions, or inducements of any kind with respect to Connectors or other articles which would have the effect of reducing the selling prices, changing the dates of settlement or changing or increasing the discounts or circular the manner of selling, from time to time fixed by the Licensor. The Licensor and Licensee also agree that they will not grant long term credits, give extended datings, allow cash settlement discounts on notes or trade acceptances from purchasers or otherwise

7. The Licensor may at any time or times at its option send by registered mail to the Licensee a list or lists of approved purchasers of Connectors and stating the date on which such list or lists shall be deemed to take effect. The Licensor may thereafter

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from time to time add or remove names from such list of approved purchasers, and in any of such events the Licensor shall notify the Licensee by reg-, istered mail of such additions, or removals, stating the date when same shall take effect. The Licensor and Licensee covenant and agree that they will offer for sale or sell Connectors only to persons whose names shall at the time appear on said list or lists and to such persons only in accordance with the preceding two paragraphs. The Licensor may at any time or times and from time to time carteel and or withdraw said lists in whole or in part by sending by registered mail netice of such whole or partial cancellation, and or withdrawal to the Licensee. Subsequent to any such total or partial withdrawal and or cancellation the Licensor may from time to time and af any time or times reinstate said lists in whole or in part.

It is thus seen that the plaintiffs not only exercised the most rigid price fixing in their commercial exploitation, but also followed the vicious practice of using the patent to dictate to the industry who would and who would not be permitted to do business in connection with that industry.

The Court said on page 10 of its opinion -

to have the claims in the Fullman patent given a construction broad enough to prevent anyone from using old and unpatented bushings, cables or conduits, with the peep-hole connectors furnished by the plaintiffs or their authorized licensees which, of course, they could not do. (Bassio). Mig. Co. v. R. M. Hollingshead Co. 298 U. S. 415).

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It is seen from paragraph 7 quoted above from the plaintiff license agreements, that they are attempting to use the patent in suit along with other patents under their control to do what amounts to exactly this. They arrogate to themselves the right arbitrarily, and capriciously if they choose, to blacklist anyone, and completely shut off his source of supply of these unpatented connectors, regardless of the use to which they are to be put.

This is clearly an attempt unlawfully to extend the patent monopoly, such as was directly condemned by the Supreme Court since this case was tried. On January 3, 1938, in the case of Leitch Mfg. Co., Inc. vs. The Barber Co., Inc., 36 U. S. Pat. Q. 35, the Supreme Court said:

"The Court held in the Carbice case that the limitation upon the scope or use of the patent which it applied was 'inherent in the patent grant.' It denied relief, not because there was a contract, or notice held to be inoperative, but on the broad ground that the owner of the patent monopoly, ignoring the limit tation 'inherent in the patent grant,' sought by its method of doing business to extend the monopoly to unpatented material used in practicing the invention By the rule there declared every use of a patent as a means of obtaining a limited mappely of unpat ented material is prohibited. It applies whether the patent be for a machine, a product, or a process. I applies whatever the nature of the device by which the owner of the patent seeks to effect such un authorized extension of the monopoly. Nothing in Leeds & Catlin Co. v. Victor Talking Machine Co 213 U. S. 325, limits it."

At the trial the defendants proved eleven uses for these unpatented connectors other than to complete the

patented combination. None of these was disputed, the only dispute being whether the combination was ever completed in the particular manner covered by the patent, that is, with the flange of the bushing inside the peep-holes. In spite of this the plaintiff under its license agreements is in a position to blacklist defendants, and prohibit entirely their purchase of any of these connectors, and therefore prevent their use for any purpose whatever.

It is therefore respectfully prayed that the Court will reconsider its decision and hold claim 1 invalid.

Respectfully submitted,

DARBY & DARBY, Attorneys for Defendants.

We hereby certify that we have read the foregoing petition for rehearing and that in our opinion it is well founded and presents grounds whereon rehearing ought to be granted, and we further certify that it is not intended for purposes of delay, and that all matters of fact therein represented and not appearing of record are true.

DARBY & DARBY, Attorneys for Defendants.

Dated: New York, N. Y., March 30, 1938.

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Stipulation Concerning Extracts from the Minutes of Oral Proceedings on Defendants' Petition for Rehearing.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

[SAME TITLE]

It is Stipulated between the attorneys for the parties hereto, subject to the approval of the Court, that the following is a true and correct transcript of the record of the District Court on the rehearing of the above-entitled matter (certain portions having been eliminated by agreement) and may be treated and considered as the record of the rehearing of said cause in making up the transcript of the record on appeal.

Bohleber & Ledbetter, Attorneys for Plaintiffs.

DARBY & DARBY, Attorneys for Defendants.

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IT IS SO ORDERED.

ROBERT P. PATTERSON, U. S. D. J.

Dated: New York, New York., August 12th, 1938.

Extracts from the Minutes of Oral Proceedings Before Hon. Murray Hulbert, D. J., on April 23, 1938, on Defendants' Petition for Rehearing.

The Court: This is a hearing on the petition of the defendants. You may proceed.

Mr. Crews: During my argument I will refer to some of the patents in the book of patents which is Exhibit M. My first point in connection with this petition, your Honor, is that the visibility of the bushing through the connector represents whatever there is of invention in the patent in suit. That is, the whole point of the patent is visibility.

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With respect to the question of price control, I quoted in my request for rehearing paragraphs 5 and 6 of the plaintiff's license agreements.

The Court: Where was that issue raised on the trial? Mr. Crews: We raised it through the interrogatories. We propounded interrogatories to get their license agreements out of them. They were supplied from the copy of the agreement.

The Court: Was anything said about it on the trial at all?

Mr. Crews: I mentioned it in my opening, yes, your Honor, and furthermore Judge Chase in his dissenting opinion in the case of National Electric v. Circle on the Frederickson patent which involved the same elements held that there was price-fixing in connection with that.

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To sum it all up I think the situation is that the connector itself is unpatented and unpatentable. In all it is shown in the Casper patent, fingers and all. The defendant wants to know where it stands. If this patent is held invalid we will know. Otherwise we may be blacklisted under their agreement.

Under the recent decision in the Barber case and the Lincoln Engineering case the Supreme Court has set its foot down very strongly on any monopoly beyond any862 Extract From the Minutes of Oral Proceedings Before Hon. Murray Hulbert, D. J., on April 23, 1938, on Defendants' Petition for Rehearing.

thing that is covered in the patent, and the attempt to stop us from manufacturing or selling these connectors would be a clear extension of the patent monopoly under those decisions of the Supreme Court. Thank you.

Mr. Fassett: * * About price-fixing, there is nothing mysterious about that word. If this is a valid grant, the patentee or his exclusive licensee has a perfect right to fix the prices. At the outset I would like to refer to the case of E. Bement & Sons v. National Harrow Company, decided by the Supreme Court, 186 U. S. page 70. In that case Mr. Justice Peckham speaking of a patentee and quoting from the case of Heaton-Peninsula Button-Fastener Co. v. Eureka Specialty Co., 77 Fed. 288, 294 said:

The Court: Mr. Fassett, so far as I am concerned there is no purpose or intention on my part to make any disfinction of what the law is and has been with respect to the rights of a patentee. My point was, and it is the only reference that I made in the opinion to it, and while as Mr. Crews states in his opening he made some reference to the question of price control, the opening is for the purpose of indicating to the Court what it is expected will be proven in the course of a trial, and during the course of the trial there was no proof offered and there was no discussion on the subject of price control as I recall it. But there was in the brief a reference to this opinion of Judge Chase in the case tried before Judge Galston over in Brooklyn and it was pointed out, of course, that it was a dissenting opinion. But that case did not turn on that point in the Circuit Court of Appeals at all. I felt that the question of price control was not one of the issues that had been raised in the trial before me.

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Extract From the Minutes of Oral Proceedings Before
Hon. Murray Hulbert, D. J., on April 23, 1938,
on Defendants' Petition for Rehearing.

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Mr. Crews: I offered the answers to the interrogatories and I haven't raised any question as to the legality of price-fixing.

The Court: I realize that. That is my reason for the interruption of Mr. Fassett's reading of those citations. The question of legality of price-fixing is not the question. At any rate it was not argued before me.

Mr. Bohleber: Your Honor, I move you that this petition be denied. It is simply a rehash of what has been gone through on the trial and, what has been gone through in the briefs. The briefs were very carefully considered. There is no use of delaying this case any longer.

The Court: Of course, the existence of the Circuit Court of Appeals and the large amount of business which is disposed of up there not only justifies its existence but establishes the fact that District Court Judges are often wrong. I thought I understood the facts in this case, which incidentally I thought was very well tried, and I, gave a great deal of patience and consideration to the case after submission. You can't always interpret the law as it is written even by the Appellate Courts with the same eyes and with the same trend of thought. I feel now after hearing counsel as I felt when this case was decided that the Court had made a decision in accordance with its lights and I still feel the same way about it. It may be that I am wrong and I should not be surprised any more in this case than in any other if I were. But I feel that this application must result in the denial of the petition and the approval of the decree which has been presented unless it is desired to have the Court consider " the counter decree?

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Petition for Appeal.

UNITED STATES DISTRICT COURT,

Southern District of New York.

[SAME TITLE]

869

The above-named defendants, feeling themselves aggrieved by the final decree made and entered in the above-entitled cause on or about the 26th day of April, 1938, hereby do appeal from said final decree to the United States Circuit Court of Appeals for the Second Circuit, for the reasons set forth in the assignment of errors filed herewith, and they pray that their appeal be allowed and that citation be issued as provided by law, directed to the above-named plaintiffs, The Thomas & Betts Co. and National Electric Products Corporation, commanding them to appear before the United States Circuit Court of Appeals for the Second Circuit to do and receive what may pertain to justice to be done in the premises, and that a transcript of the record, proceedings, and documents upon which said decree was based, duly authenticated, be sent to the United States Circuit Court of Appeals for the Second Circuit.

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DARBY & DARBY, Solicitors for Defendants.

Dated: New York, N. Y., June 28, 1938.

Order Allowing Appeal.

At a Stated Term of the District Court of the United States for the Southern District of New York, held in the United States Court House, Foley Square, in the Borough of Manhattan, City and State of New York, on the day of June, 1938.

Present:

Hon. George Murray Hulbert, United States District Judge.

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[SAME TITLE]

The defendants, having presented their petition for appeal herein, it is ordered:

1. That the defendants' appeal is allowed as prayed for.

(s.) HULBERT, United States District Judge.

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Dated: New York, N. Y., June 28, 1938.

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Assignment of Errors.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

[SAME TITLE].

Now comes the defendants in the above entitled cause and file the following assignment of errors on which they will rely upon their prosecution of the appeal in the above entitled cause, from the decree made by this Honorable Court on or about the 26th day of April, 1938.

- 1. The District Court erred in holding claim 1 of Fullman Patent No. 1,769,947 valid.
- 2. The District Court erred in failing to hold claim 1 of Fullman Patent No. 1,769,947 invalid.
- 3. The District Court erred in holding that the extended elements of Casper Patent No. 1,279,256 do not bear upon and retain the bushing in place.
 - 4. The District Court erred in holding that the bushing in the Casper device does not bear upon the armored cable but upon the conduit, thus drawing a distinction between armored cable and conduit.
 - 5. The District Court erred in holding that in Perry Patent No. 1,585,688 the fingers are a part of the bushing and not a part of the connector.
 - 6. The District Court erred in failing to hold that the fingers of Perry Patent No. 1,585,688 are a part of the

connector and bear upon the bushing to hold it in place and permit it to be visible.

- 7. The District Court erred in making any distinction between conduit and cable so far as the alleged invention of the patent in suit is concerned.
 - 8. The District Court erred in failing to hold that the fingers projecting inwardly and the little niches in the mouth of the Fullman patent in suit, No. 1,769,947 are such trivial modifications that they do not amount to invention.

- 9. The District Court erred in holding that there is no proof in this case that any effort has been made to effect price control.
- 10. The District Court erred in failing to hold that the alleged commercial success of the patent in suit was due to price control.
- 11. The District Court erred in failing to hold that claim 1 of the Fullman patent No. 1,769,947 is only for 879 an old and well known combination.

- 12. The District Court erred in failing to hold that asa matter of law there can be no contributory infringement of a patented combination simply by the sale of one element of the combination
 - (a) when that element is a standard article of com-
 - (b) to a buyer who necer uses the element or the combination.
 - (e) to a buyer who resells that element without using it:

- (d) when there are at least eight other well known uses for the element.
- 13. The District Court erred in failing to hold that contributory infringement of a patented combination by the sale of one element thereof is not proved without proof that said element was used to complete the combination.
- 14. The District Court erred in failing to hold that there can be no infringement of Fullman Patent No. 1, 769,947 by the manufacture or sale of the connectors described in that patent.

Wherefore, and for diverse other errors in the record of this cause appearing, defendants pray that the decree entered herein on or about the 26th day of April, 1938, be reversed in the above respects, and that the said District Court for the Southern District of New York be ordered to enter a decree in full accordance herewith.

DARBY & DARBY; Solicitors for Defendants.

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Dated: New York, N. Y., June 28, 1938.

Citation.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK.

[SAME TITLE]

By the Honorable George Murray Hulbert, One of the Judges of the District Court of the United States for the Southern District of New York, in the Second Circuit,

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To: THE THOMAS & BETTS Co., and NATIONAL ELECTRIC PRODUCTS CORPORATION, GREETINGS:

You are hereby Cited and admonished to be and appear before a United States Circuit Court of Appeals for the Second Circuit, to be holden at the Borough of Manhattan, in the City of New York, in the District and Circuit above named, on the 28th day of July, 1938, pursuant to an appeal and assignment of errors filed in the Clerk's office of the District Court of the United States for the Southern District of New York, wherein Electrical Fittings Corporation, Joselson Sales Corporation, Samuel Joselson and Belle Joselson are defendants and you are plaintiffs, to show cause, if any there be, why the errors in said appeal and assignment mentioned should not be corrected and speedy justice should not be done in that behalf.

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GIVEN UNDER MY HAND at the Borough of Manhattan, in the City, County and State of New York, in the District and Circuit above named, this 28th day of June, in the year of our Lord One Thousand Nine Hundred and

Thirty-eight, and of the Independence of the United States the One Hundred and Sixty-second.

(S) HULBERT,
Judge of the District Court of the
United States for the Southern
District of New York, in the
Second Circuit.

Stipulation as to Contents of Record.

UNITED STATES DISTRICT COURT,

SOUTHERN DISTRICT OF NEW YORK:

[SAME TITLE]

It is hereby Stipulated between the attorneys for the parties hereto, subject to the approval of this Court, that the following enumerated papers shall constitute the transcript of record on appeal of this cause:

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- 1. Bill of complaint.
- 2. Answer.
- 3. Waiver of treble damages by plaintiffs.
- 4. Plaintiffs' motion for bill of particulars (Plaintiffs' Exhibit 6).
- 5. Defendants' bill of particulars (Plaintiffs' Exhibit 7).
- Stipulation concerning narrative statement of testimony.
- 7. Narrative statement of testimony.
- 8. Plaintiffs' exhibits as follows: Exhibits 3, 4, 5, 8, 19, 31, 32.
- Defendants' exhibits as follows: Exhibits A, B, C, D, M.

- 10. Opinion of Judge Hulbert.
- 11. Final decree:
- 12. Stipulation that opinion of Court may be taken as compliance with Equity Rule 701/2.
- 13. Defendants' petition for rehearing.
- 14. Stipulation concerning extracts from the minutes of the oral proceedings on defendants' petition for rehearing.
- Extracts from the minutes of oral proceedings before Honorable Murray Huibert, D. J., on April 23, 1938, on defendants' petition for rehearing.
- 16. Petition for appeal.
- 17. Order allowing appeal.
- 18. Assignment of errors.
- 19. Citation.
- 20. This stipulation.
- 21. Clerk's certificate.

It is further Stipulated and Agreed that the following exhibits are to be treated as physical exhibits and produced in Court at the argument of the appeal:

22. Plaintiffs' exhibits as follows:

Exhibits 1, 2, 9, 10, 11, 12, 16, 17, 20, 29, 30, 33, 34. 891

23. Defendants' exhibits as follows:

Exhibits E-1, E-2, F, J, K, O.

Bohleber & Lebberrer, Attorneys for Plaintiffs.

DARRY & DARRY, Attorneys for Defendants.

Ir is so Ordered, August 16, 1938:

ROBERT P. PATTERSON.

U. S. D. J.

Dated, New York, New York, August 12th, 1938.

Stipulation.

UNITED STATES DISTRICT COURT;

SOUTHERN DISTRICT OF NEW YORK.

THE THOMAS & BETTS Co., a corporation, and NATIONAL ELECTRIC PRODUCTS CORPORATION, a corporation,

Plaintiffs-Appellees,

VS

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ELECTRICAL FIFTINGS CORPORATION, a corporation, Joselson Sales Corporation, a corporation, and Samuel Joselson and Belle Joselson, individually,

Defendants-Appellants.

It is hereby stipulated and agreed, that the foregoing is a true transcript of the record of the said District Court in the above-entitled matter as agreed on by the parties.

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Dated, November

, 1938.

DARBY & DARBY, Attorneys for Appellants.

Bohleber & Ledbetter, Attorneys for Appellees.

Clerk's Certificate.

UNITED STATES OF AMERICA, Southern District of New York,

THE THOMAS & BETTS Co., a corporation, and NATIONAL ELECTRIC PRODUCTS CORPORATION, a corporation,

Plaintiffs-Appellees,

VS.

ELECTRICAL FITTINGS CORPORATION, a corporation, Joselson Sales Corporation, a corporation, and Samuel Joselson and Belle Joselson, individually,

Defendants-Appellants.

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I, CHARLES WEISER, Clerk of the District Court of the United States of America for the Southern District of New York, do hereby Certify that the foregoing is a correct transcript of the record of the said District Court in the above-entitled matter as agreed on by the parties.

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In testimony whereof, I have caused the seal of the said Court to be hereunto affixed, at the City of New York, in the Southern District of New York, this day of November, in the year of our Lord one thousand nine hundred and thirty-eight, and of the Independence of the said United States the one hundred and sixty-third.

CHARLES WEISER, Clerk.

(Seal)

[fol. 300] IN THE UNITED STATES CIRCUIT COURT OF APPEALS
FOR THE SECOND CIRCUIT

Appeal No. -

THE THOMAS & BETTS Co. et al., Plaintiffs-Appellees,

VS.

ELECTRICAL FITTINGS CORPORATION et al., Defendants-Appellants

NOTICE

Please Take Notice that on Monday November 14, 1938 at 10:30 in the forenoon, or as soon thereafter as counsel may be heard, plaintiffs-appellees will move to dismiss defendants-appellants appeal entitled as above upon the grounds set forth in the motion of plaintiffs-appellees herein, a copy of which motion is attached hereto.

Bohleber & Ledbetter, Attorneys for Plaintiffs-Appellees.

New York, N. Y., November 10, 1938.

To Messrs. Darby & Darby, 405 Lexington Avenue, New York, N. Y.

Service of the within and receipt of copy thereof is hereby acknowledged, this 10th day of November, 1938.

Darby & Darby, by Floyd H. Crews, Attorneys for Defendants-Appellants.

[fol. 301] IN THE UNITED STATES CIRCUIT COURT OF APPEALS FOR THE SECOND CIRCUIT

Appeal No. -

THE THOMAS & BETTS Co., a Corporation, and NATIONAL ELECTRIC PRODUCTS CORPORATION, a Corporation, Plaintiffs-Appellees,

ELECTRICAL FITTINGS CORPORATION, a Corporation; Joselson Sales Corporation, a Corporation, and Samuel Joselson and Belle Joselson, Individually, Defendants-Appellants

MOTION TO DISMISS

Now comes plaintiffs-appellees and move to dismiss defendants-appellants appeal in the above entitled case, on the

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ground that the bill of complaint having been dismissed by the final decree of the District Court, thus denying plaintiffs' prayer for an injunction and an accounting, all equitable jurisdiction is ousted and defendants'-appellants' appeal merely raises a moot or academic question of law with which this Court is not concerned.

Bohleber & Ledbetter, Solicitors for Plaintiffs-Ap-

pellees.

Dated November 10, 1938.

Facts

- 1. The above entitled appeal was docketed in this Court on November 9, 1938.
- 2. Plaintiffs' bill of complaint in this case was dismissed (a) as to contributory infringement, (b) for an injunction, [fol. 302] and (c) for an accounting, by His Honor Judge Hulbert, sitting in the U. S. District Court for the Southern District of New York as shown by the final decree, upon which this appeal is based, as set forth in the Transcript of the Record, page 276 Fol. 830.
- 3. In the Court below the defendants, appellants here, prayed for the dismissal of the bill of complaint on the ground (1) that the patent in suit is wholly void and invalid at law, and (2) that defendants did not infringe said patent, if valid; see defendants' answer Tr. p. 11. The bill of complaint was dismissed because the district Court was "not persuaded that the plaintiff has sustained the burden of proof" of infringement. See the opinion of the Court be low, Tr. 259, at 273.

Law

Inasmuch as the bill of complaint in this case has been dismissed, and the fact that defendants admittedly do not have title to the patent in suit, and therefore no right to an injunction, based thereon, this Court is without equitable jurisdiction to hear and determine this case, and defendants appellants in the circumstances are not in a position to maintain this appeal. Cf. Peters Patent Corp. vs. Bates & Klink, Inc., 295 U. S. 392, 394; 79 L. Ed. 1498, 1500.

Where defendants sought to dismiss plaintiffs' bill of complaint on two counts, namely (1) invalidity of the patent

in suit, and (2) non-infringement, and have prevailed, albeit the Court's opinion is based upon only one of said grounds, namely, non-infringement, defendants have obtained full relief against the plaintiffs and are not entitled to insist, on [fol. 303] appeal that the that the decree should have been based on both grounds, and thus obtain a review of the determination of the validity of the patent. Cf. P. E. Sharpless Co. vs. William A. Lawrence & Son (C. C. A. 3) 208 Fed. 886.

In effect, defendants-appellants by their appeal are endeavoring to submit for judicial determination a "moot question of law" with which this Court is not concerned until the question is properly presented. In other words, as far as these defendants are concerned, having succeeded in dismissing plaintiffs' bill of complaint, all matters raised by the assignment of errors present purely academic questions. As recited by the Supreme Court in the recent case of Triplett vs. Lowell 80 L. Ed. 949, 956:

"We are not required to answer academic questions, or questions which may not arise in the pending controversy. See White v. Johnson, supra (282 U. S. 373, 75 L. ed. 394, 51 S. Ct. 115); United States v. Hall 131 U. S. 50, 33 L. ed. 97, 9 S. Ct. 663, supra; Webster v. Cooper, 10 How. 54, 55, 13 L. ed. 325, 326."

Bohleber & Ledbetter, Solicitor- for Plaintiffs-Appellees. (Sgd.) Wm. Bohleber, Francis H. Fassett, of Counsel.

Dated New York, N. Y., November 10, 1938.

[fol. 303½] [Endorsed:] United States Circuit Court of Appeals for the Second Circuit. The Thomas & Betts Co., a corporation; and National Electric Products Corporation, a corporation, Plaintiffs-Appellees, vs. Electrical Fittings Corporation, a corporation; Joselson Sales Corporation, a corporation, and Samuel Joselson and Belle Joselson, individually, Defendants-Appellants. Appeal No.—. Notice and Motion to Dismiss. Law Offices of Bohleber & Ledbetter, 15 Park Row, New York.

[fol. 304] United States Circuit Court of Appeals for the Second Circuit

Equity. No. 81/229

THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION, Plaintiffs-Appellees,

VS.

ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORA-TION, and SAMUEL JOSELSON and BELLE JOSELSON, Defendants-Appellants

NOTICE

Please Take Notice that on Monday, November 14, 1938, at 10:30 o'clock in the forenoon, or as soon thereafter as counsel can be heard, the attached motion will be presented to the Court hearing motions at the United States Court House, Foley Square, New York, New York.

Yours, &c., Darby & Darby, Floyd H. Crews, Attor-

neys for Defendants-Appellants.

Dated, New York, New York, November 10, 1938.

To Messrs. Bohleber & Ledbetter, Attorneys for Plaintiffs-Appellees, 15 Park Row, New York, New York.

Copy of this notice with motion and affidavit in support thereof received this 10th day of November, 1938.

Bohleber & Ledbetter, Attorneys for Plaintiffs-Appellees.

[fol. 305] UNITED STATES CIRCUIT COURT OF APPEALS FOR THE SECOND CIRCUIT

Equity. No. 81/229

THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION, Plaintiffs-Appellees,

VS.

ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORA-TION, and SAMUEL JOSELSON and BELLE JOSELSON, Defendants-Appellants

Morton

Now Come appellants, and on the annexed affidavit of Floyd H. Crews move to remand the case to the District

Court with instruction to vacate the decree entered in this cause on April 27, 1938 holding claim 1 of Letters Patent No. 1,769,947 valid and claim 2 thereof invalid; and to enter a decree holding the said patent in its entirety to be invalid because of violation of Section 4922 of the Revised Statutes.

And appellants further move that all costs in the cause, both in this Court and in the District Court, be taxed against

the plaintiffs.

Electrical Fittings Corporation, Joselson Sales Corporation, Samuel Joselson, Belle Joselson, Appellants, by Darby & Darby, Floyd H. Crews, Attorneys for Appellants.

Dated November 10, 1938.

[fol. 306] UNITED STATES CIRCUIT COURT OF APPEALS FOR THE SECOND CIRCUIT

Equity. No. 81/229

THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION, Plaintiffs-Appellees,

WS.

ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORA-TION, and SAMUEL JOSELSON and BELLE JOSELSON, Defendants-Appellants.

AFFIDAVIT IN SUPPORT OF MOTION

STATE OF NEW YORK,

County of New York, ss:

Floyd H. Crews, being duly sworn, deposes and says as follows:

I am an attorney at law and a member of the firm of Darby and Darby, attorneys for the appellants in the above-entitled cause and am familiar with the proceedings had in the said cause.

The case is a patent infringement suit charging infringement of claims 1 and 2 of Letters Patent No. 1,769,947 and was tried before Judge Hulbert.

On March 22, 1938 Judge Hulbert rendered his opinion holding claim 1 of the patent to be valid and claim 2 of the patent to be invalid.

On April 27, 1938 a final decree to that effect was filed.

Appellants filed a petition for appeal on June 28, 1938, and the order allowing the appeal was entered on that date. [fol. 307] The plaintiffs below have taken no appeal from the holding of invalidity of claim 2 of the patent.

On June 2, 1938, the plaintiff National Electric Products Corporation signed a disclaimer of claim 2 of said patent

No. 1,769,947.

On June 6, 1938, the plaintiff Thomas & Betts Company, exclusive licessee under said patent, signed said disclaimer, indicating its acquiescence therein.

The said disclaimer was forwarded to the Patent Office and received there on July 26, 1938, without the statutory fee required by Section 4934 R. S. U. S. (U. S. C. Title 35, Sec. 78).

On August 19, 1938, the disclaimer fee was paid and the

disclaimer was filed and recorded on that date.

It will thus be seen that the events just referred to occurred in the following sequence and each the number of days shown after Judge Hulbert's decision:

Judge Hulbert's decision-March 22, 1938.

Final decree-April 27, 1938-36 days after decision.

Disclaimer signed by patent owner—June 2, 1938—72 days after decision.

Disclaimer signed by exclusive licensee—June 6, 1938—76 days after decision.

Disclaimer received at Patent Office without fee—July 26, 1938—126 days after decision.

Fee paid and disclaimer filed and recorded—August 19, 1938—150 days after decision and 114 days after final decree.

The notice of the disclaimer above referred to was not carried in the Official Gazette of the United States Patent Office until the issue of September 6, 1938. Immediately [fol. 308] upon seeing that notice of disclaimer, namely, on September 8, 1938, I prepared and served upon the attorneys for the appellees a motion to vacate the decree and enter a new decree holding the patent in its entirety to be invalid because of violation of Section 4922 of the Revised Statutes, and suspended further preparation of the appeal papers at that time to avoid any further expense to either party. That motion was heard by Judge Hulbert who dis-

missed it on the ground that he was without jurisdiction, having already signed the petition for appeal. A copy of Judge Hulbert's opinion is attached hereto.

Floyd H. Crews.

Sworn to and subscribed before me this 10th day of November, 1938. Rose A. Batterman, Notary Public. (Seal.)

[fol. 309]

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UNITED STATES DISTRICT COURT, SOUTHERN DISTRICT OF NEW YORK

No. 81-229

THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION, Plaintiffs,

VS.

ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORA-TION, and SAMUEL JOSELSON and BELLE JOSELSON, Defendants

OPINION

Bohleber & Ledbetter, Esqs., Solicitors for Plaintiffs, 15 Park Row, New York City.

William Bohleber, Esq., Francis H. Fassett, Esq., of Counsel.

Darby and Darby, Esqs., Solicitors for Defendants, 405 Lexington Ave., New York City.

Samuel E. Darby, Jr., Esq., Floyd H. Crews, Esq., of Counsel.

HULBERT, D. J.:

[fol. 310] This action was tried and decided March 22nd, 1938.

The patent in suit was held valid as to claim 1 and invalid as to claim 2. Rehearing, upon application of the defendants, was denied April 23rd, 1938 (23 Fed. Supp. 920).

Final decree was entered April 27, 1998. The defendants submitted an assignment of errors and petition praying leave to appeal, on which an order dated June 28, 1938

was made and filed June 30, 1938. No appeal was taken by the plaintiffs and the record is now in galley proof.

Under the early accepted general rule a patent with an invalid claim was wholly void but over 100 years ago the Congress gave relief to protect the valid part of a patent containing an invalid claim if the patentee disclaimed the invalid part without unreasonable neglect or delay. (Act of March 3, 1837 which, with slight modifications now constitutes Sections 4917 and 4922 Revised Statutes (Secs. 65 and 71 Title 35 U. S. C. A.)

The official Gazette of the United States Patent Office in its issue of September 6th, 1938, discloses that on August 19, 1938 a disclaimer of the invalid claim 2 was recorded. This was 150 days after the decision and 114 days after the entry of the final decree thereon, but within 30 days after the expiration of the time allowed the plaintiffs to have per-

fected an appeal, had they chosen to do so.

It appears that the disclaimer was signed and acknowledged by one of the plaintiffs on June 2, 1938 and by the other on June 6, 1938, and received at the Patent Office on [fol. 311] July 26, 1938 but was unaccompanied by the statutory filing fee, which was not paid until August 19, 1938. It may be that the plaintiffs can establish sufficient excuse to justify this delay.

But the preliminary question is whether the Court has the power to entertain the application.

The allowance of the appeal terminated the power of this Court to do any act with respect to its decree without leave of the Circuit Court of Appeals, to which the appeal has been taken, except, of course, ministerial acts in connection with the preparation of the record on appeal, and the exercise of inherent power to enforce its mandate. But the Court is not without recourse to do justice in a proper case and the accepted practice in a situation such as is now present would seem to be to apply to the Appellate Court to have the case remitted if the trial judge felt that substantial justice so required. Baltimore S.S. Co. v. Phillips, 9 Fed. (2) 902.

The disclaimer statutes above referred to:

"enact that where a patentee claims materially more than that which he was the first to invent, his patent is void, unless he has preserved the right to disclaim the surplus; and that he may fail to preserve the right, by unreasonable neglect or delay to enter a disclaimer in the Patent Office." Walker on Patents, 6th Rd., Sec. 254.

In Ensten v. Simon Ascher & Co., 282 U. S. 445, the Court in reviewing the disclaimer statute, said:

"The statute is remedial; the intent is to aid the inventor free from wilful default or intention to mislead the public by permitting him to avoid the consequence of inadvertence, accident or mistake through prompt disavowal of the apparent right to exclude others from something improperly included in the words of his grant. Escape is permitted only to one who acted originally in good faith and who has complied with the prescribed conditions. The same principle which '' il. 312] forbids a patentee to assert a right to more than he has actually invented compels him to disavow the right as soon as he discovers that it has been unjustly claimed. Unreasonable delay in disclaiming is thus tantamount to an original fraudulent claim, and through it the patentee loses the privilege of making the amendment by which alone his patent could be saved."

"In cases where the excess is not apparent at once upon the inspection of the patent by the patentee, the allowance of his claim by the Patent Office raises such a presumption in its favor that he may rely on its validity until a court of competent jurisdiction decides that it is broader than his real invention."

There is no general rule which specificially defines "unreasonable neglect or delay."

The defendants cite, inter alia, and rely upon Railway Engineering E. Co. v. Oregon Short Line R. Co., 79 Fed. (2) 469.

In that case the District Judge rendered and filed a written opinion July 5, 1934 and a decree was signed and filed Aug. 25, 1934. On Nov. 22nd appellant filed its petition for appeal and its assignment of errors but the appeal was not lodged in the Circuit Court until April 1, 1935, whereupon the appellee filed a motion to dismiss on the ground that the alleged errors of the trial court had become most questions because appellant-plaintiff unreasonably neglected and delayed appealing or to enter disclaimers following the decision. 51 days elapsed from the rendition of the opinion of the District Judge before final decree

was entered; 140 days elapsed after decision before appeal was asked and allowed, and 89 days elapsed between the entry of the decree and filing petition for appeal and its allowance. The Court held the neglect and delay upreasonable.

Judge MacDermott, in a dissenting opinion in Railway [fol. 313] Engineering E. Co. v. Oregon Short Line R. Co., supra, said:

"I agree that three months is not needed to determine whether an appeal should be taken, but I think a definite and certain shorter period should be prescribed for the future only.

"In the long history of the disclaimer statute, no patent ever before has been held void because an appeal was not taken prior to the expiration of the statutory period. the contrary, courts frequently have said that disclaimers must be filed within a reasonable time-generally 30 daysafter the statutory time for appeal or application for certiorari has expired.

"The trend of the times is very strongly toward expediting litigation, a trend with which I am heartily in accord. But it does not make for expedition to substitute an indefinite standard of reasonable promptness for a specific period fixed by statute."

There is a lack of uniformity in the divers circuits. The rule in our own Circuit referred to by Judge Coleman in General Chemical Co., v. Standard W. P. & Acid Works. 8 Fed. Supp. 265 (D. C. Md.) as the "thirty day rule" or "the New York rule" is that the filing of a disclaimer within 30 days after the time to appeal has expired, is not unreasonable, and certainly if a party has 90 days within which to appeal it does not seem logical that he should be required to give up this statutory right and file his disclaimer.

In the instant case the plaintiffs manifested their intention to disclaim early in June. It may have been that pending presentation of the disclaimer to the Patent Office they were still considering whether they would appeal. disclaimer was in the Patent Office on July 26, 1938 although the statutory filing fee was not paid until Aug. 19, 1938. All of which bears on the question of good faith.

[fol. 314] The Court is disinclined to request the Appellate Court to authorize it to reopen the case and remit the

record for that purpose. If the defendants succeed in their appeal the hearing now sought will become moot. If they fail, they may still raise the issue if and when suit is brought against them for infringement or against any customer whom they may feel obligated to defend.

Settle order on two days' notice.

Dated Nov. 1st, 1938.

Hulbert, U. S. D. J.

[fol. 315] UNITED STATES CIRCUIT COURT OF APPEALS FOR THE SECOND CERCUIT

Equity. No: 81-229

THE THOMAS & BETTS Co., a Corporation, and NATIONAL ELECTRIC PRODUCTS CORPORATION, a Corporation, Plaintiffs-Appellees,

VS

ELECTRICAL FITTINGS CORPORATION, a Corporation; Josepson Sales Corporation, a Corporation, and Samuel Josepson and Belle Joselson, Individually, Defendants-Appellants

AFFIDAVIT OF SAMUEL JOSELSON

STATE OF NEW YORK, County of New York, ss:

Samuel Joselson being duly sworn deposes and says:

I am the Samuel Joselson who is a defendant-appellant in the above entitled proceeding, and am an officer of each of the two corporations which are defendants-appellants in that proceeding, and the husband of Belle Joselson, who is the only other defendant-appellant in that proceeding.

Attached to this affidavit is a letter which was received by me by registered mail on Saturday, November 26, 1938, from the Thomas & Betts Co., a plaintiff-appellee herein.

Samuel Joselson.

Sworn to and subscribed before me this 28th day of November, 1938. Rose A. Batterman, Notary Public. (Seal.) (Here follows one photolithograph, side folio 316)



BETTS CO. AND PACTORY S6 BUTLER STREET KLIKA BETE, N. J. SALES OFFICE THOMAS THE

November 25, 1938

Electrical Fittings Corporation, New York City. Broadway,

Gentlemen:

patent We enclose herewith a copy of reissued #20,875 of Fullman patent #1,769.947.

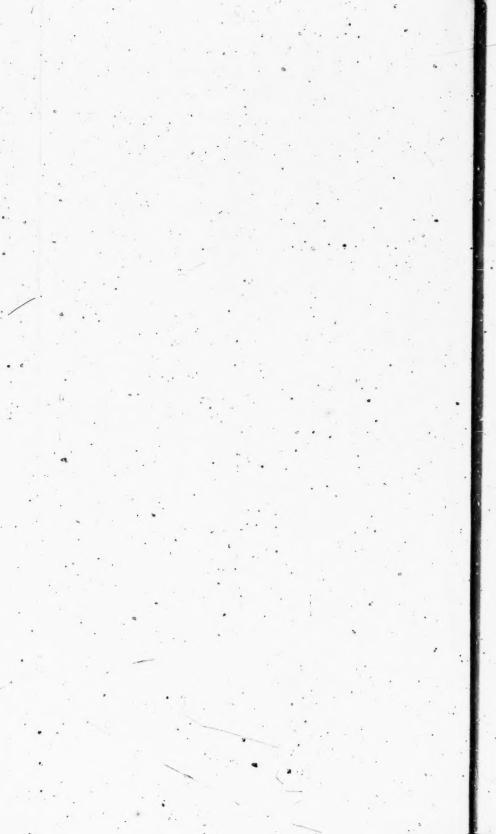
two additional claims You will notice that claim 2 of the original broader than the patent has been disclaimed and that have been added, both of which are have been added, original

we hereby demand that you purchase connectors embodying the improvements claimed and described in the reissued patent from licensees of this company only. patent from licensees of reissued

Yours very truly,

THE THOMAS & BETTS CO.

dnah McMurtrie Secretary.



[fol. 317] United States Circuit Court of Appeals for the Second Circuit

THE THOMAS & BETTS Co., and NATIONAL ELECTRICAL PRODUCTS CORPORATION, Plaintiffs-Appellees,

against

ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORA-TION, and SAMUEL JOSELSON and BELLE JOSELSON, Defendants-Appellants

Decided Dec. 12, 1938

Before: L. Hand, Swan and Chase, Circuit Judges

On motion by the plaintiffs to dismiss an appeal and on motion by the defendants to remand to the District Court with instructions.

Bohleber & Ledbetter, Attorneys for Plaintiffs-Appellees; William Bohleber, Francis H. Fasset, of Counsel.

Darby & Darby, Attorneys for Defendants-Appellants; Samuel E. Darby, Jr., Floyd H. Crews, of Counsel.

CHASE, Circuit Judge:

The plaintiffs brought the usual action in equity against the defendants in the District Court for the Southern District of New York charging infringement of claims 1 and 2 of the United States Patent No. 1,769,947 granted to Fullman.

After hearing, the court held claim 1 of the patent valid but not infringed and claim 2 invalid. A final decree to this effect with a consequent dismissal of the bill of comfol. 318] plaint was entered April 27, 1938. The plaintiffs took no appeal from the decree but on June 28, 1938 the defendants filed a petition for appeal and an order allowing their appeal was made by the District Court the same day.

On August 19, 1938, a disclaimer of claim 2 was filed. The defendants, insisting that the plaintiffs unreasonably delayed or neglected to file their disclaimer contrary to the provisions of Sec. 4922 R. S. (35 U. S. C. A. Sec. 65, 71) moved to have the cause remanded to the District Court with directions to enter a decree holding the entire patent invalid. The plaintiffs have moved to dismiss the appeal.

The plaintiffs' motion to dismiss the appeal of the defendants is based on the ground that the appeal can raise no questions not already moot because of the fact that the defendants have already been granted in the dismissal of the bill all the relief to which they are entitled. The defendants reply that as claim 1 was held valid they will be deprived in any subsequent litigation of their right to contest its validity since by this decree that will have become res adjudicata and so they are prejudiced by the decree. They have found some support for their claim of right to appeal in Oliver Sherwood Co. v. Patterson-Ballagh Corporation, 95 F. (2) 71 (C. C. A. 9). Perhaps that decision may be somewhat distinguished on the facts but, however that may be, we cannot hold that under this decree the defendants are estopped from contesting again the validity of that claim. The reason is that the validity of [fol. 319] claim 1 was in no sense necessary to support the decree dismissing the bill. Indeed, the dismissal of the bill followed notwithstanding the findings on which claim 1 was held valid. Thus it appears that the defendants have already received all the relief they can obtain in this action and they have no right to contend further that it should have been based in part upon the invalidity of claim 1 instead of upon the failure of the plaintiffs to prove infringement of that claim. New Orleans v. Emsheimer, 181 U. S. 153; P. E. Sharpless Co. v. William A. Lawrence & Son, 208 Fed. 886.

In so far as the decree itself is thought to establish the validity of claim 1 and to foreclose the right of the defendants to contest the validity of that claim in any subsequent action on the patent there seems to have been a misconception of its possible scope. It merely established that there was no equity in the bill which entitled the plaintiffs to any relief whatever regardless of whether claim 1 was valid or not. That left the losing plaintiffs in no better. position in respect to the patent than they were at the time they brought the suit and the successful defendants in no worse. A party may not appeal from a decree, which terminates in his favor the entire cause of action sued on. merely to obtain a review of findings which he believes erroneous but which are unnecessary to support the decree. Lindheimer v. Illinois Bell Co. 292 U. S. 151, 176; New York Telephone Co. v. Maltbie, 291 U. S. 645.

Since the appeal must be dismissed for the reasons stated, the motion of the defendants must be denied without con[fol. 320] sideration on the merits.

Motion to dismiss the appeal granted.

Filed Dec. 12, 1938.

[fol. 321] United States Circuit Court of Appeals, Second Circuit

At a stated term of the United States Circuit Court of Appeals, in and for the Second Circuit, held at the United States Court House, in the City of New York, on the 29th day of December, one thousand nine hundred and thirty-eight.

Present: Hon. Learned Hand, Hon Thomas W. Swan,

Hon. Harrie B. Chase, Circuit Judges.

THOMAS & BETTS Co., and Another, Plaintiffs-Appellees,

ELECTRICAL FITTINGS CORPORATION et al., Defendants-Appellants

A motion having been made by counsel for the appellees to dismiss the appeal herein;

Upon consideration thereof it is

Ordered that said appeal be and hereby is dismissed with costs

Further ordered that a mandate issue accordingly.

Wm. Parkin, Clerk.

[fol. 322] · [Endorsed:] United States Circuit Court of Appeals, Second Circuit. Thomas & Betts Co. and Another vs. Electrical Fittings Corpn., et al. Order. United States Circuit Court of Appeals, Second Circuit. Filed Dec. 29, 1938. William Parkin, Clerk.

[fol. 323] UNITED STATES OF AMERICA, Southern District of New York:

I, William Parkin, Clerk of the United State Circuit Court of Appeals for the Second Circuit, do hereby certify that the foregoing pages, numbered from 1 to 322 inclusive, contain a true and complete transcript of the record and proceedings had in said Court, in the case of Thomas & Betts Co. and Another, Plaintiffs-Appellees, against Electrical Fittings Corporation et al., Defendants-Appellants, as the same remain of record and on file in my office.

In Testimony Whereof, I have caused the seal of the said Court to be hereunto affixed, at the City of New York, in the Southern District of New York, in the Second Circuit, this twenty-ninth day of December, in the year of our Lord one thousand nine hundred and thirty-eight, and of the Independence of the said United States the one hundred and sixty-third.

Wm. Parkin, Clerk. (Seal United States Circuit Court of Appeals, Second Circuit.)

[fol. 324] SUPREME COURT OF THE UNITED STATES

ORDER ALLOWING CERTIORABI-Filed February 13, 1939

The petition herein for a writ of certiorari to the United States Circuit Court of Appeals for the Second Circuit is granted.

And it is further ordered that the duly certified copy of the transcript of the proceedings below which accompanied the petition shall be treated as though filed in response to such writ.



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IN THE

Supreme Court of the United States

October Term, 1938 No. 582

ELECTRICAL FITTINGS CORPORATION, JOSEL-SON SALES CORPORATION, SAMUEL JOSEL-SON and BELLE JOSELSON, Petitioners,

12.9

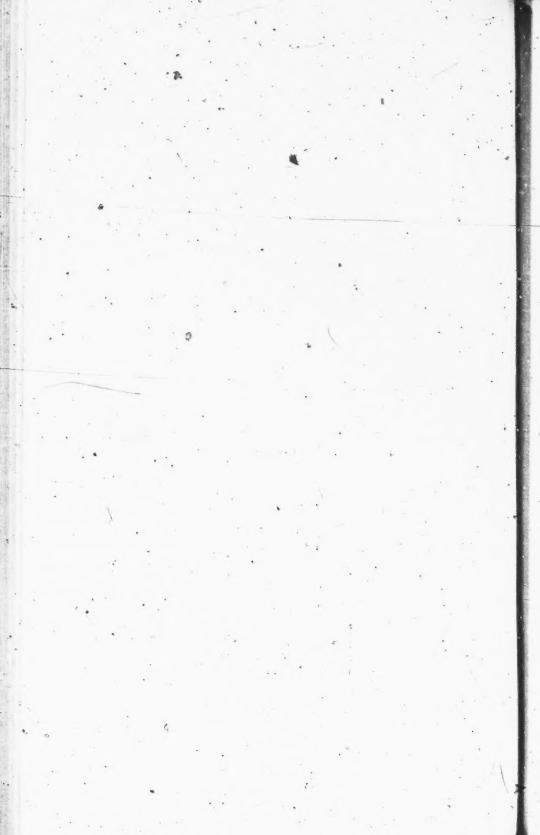
THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION,

Respondents.

PETITION FOR WRIT OF CERTIORARI AND BRIEF IN SUPPORT THEREOF.

Samuel E. Darby, Jr., Counsel for Petitioners.

FLOYD H. CREWS,
Of Counsel.



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Supreme Court of the United States

October Term, 1938

No.

ELECTRICAL FITTINGS CORPORATION, JOSEL-SON SALES CORPORATION, SAMUEL JOSELson and Belle Joselson,

Petitioners.

23.

THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION.

Respondents.

PETITION FOR WRIT OF CERTIORARI.

To the Honorable, The Chief Justice and Associate Justices of the United States:

Your petitioners, Electrical Fittings Corporation, Joselson Sales Corporation, Samuel Joselson and Belle Joselson, respectfully pray for a writ of certiorari to the Circuit Court of Appeals for the Second Circuit to review the judgment of that Court entered on December 12, 1938.

A transcript of the record in the case, including the proceedings in the said Circuit Court of Appeals, is furnished herewith in accordance with the rules of this Court.

Summary and Short Statement of the Matter Involved.

- 1. This is a patent infringement suit.
- 2. The individual petitioners, Samuel Joselson and Belle Joselson are part owners and officers of the corporate petitioners, of which Joselson Sales Corporation has ceased to be active. Electrical Fittings Corporation is engaged in the business of wholesale jobbing and distributing of electrical fittings, such as outlet boxes, connectors, fuses, plugs, etc.
- 3. The electrical fittings sold by petitioner Electrical Fittings Corporation are purchased from the manufacturers thereof; none of the petitioners are engaged in the manufacture of these commodities.
- 4. Respondent, National Electric Products Corporation, a Delaware corporation, is recognized as dominating the electrical business in the supply of wires, cables, bushings, fittings, etc. It is the owner of Fullman Patent No. 1,769,947 in suit, and has granted an exclusive license thereunder to respondent, The Thomas & Berts Co., a New Jersey corporation.
- 5. The patent relates to an electrical outlet for connecting the wire terminals of a source of current supply to conductors by which the current is conducted to a distant place. Outlet boxes are very old in the art, and have long been regarded as necessary "electrical fittings" in building construction. What is claimed as the invention is a combination of four elements—(1) an armored cable; (2) a bushing of insulating material positioned within the cable; (3) a connector of a particular construction; and means for securing the connector to the armored cable.

- 6. Although the patent is expressly directed and limited to the foregoing four element combination, respondents are milizing the patent to effect and maintain a monopoly in but one of the elements, namely the connector (No. 3 above) which is unpatented per se. This respondents do by granting licenses to all known manufacturers of the unpatented connectors (R. p. 31, fol. 93) on the term or condition that the licensees will sell the unpatented connectors to jobbers, wholesalers, etc., only at the prices fixed by respondent, The Thomas & Betts Co. (R. 214, par. 5) and only to purchasers approved by said respondent and named on a so-called "approved list" which respondent formulates and supplies to the licensees. To this list respondent expressly reserves the right to "from time to time add or remove names" at its will (R. 216, par. 7).
- 7. By means of this patent and these licenses, respondents have been placed in the position where they can and do dictate to whom unpatented connectors can be sold, thereby dominating and controlling the business in current outlets and, as a condition to including any jobber of electrical equipment on the "approved" list of purchasers of the unpatented connectors, respondents may impose upon the jobber-purchaser any conditions or terms they may see fit, such for example, as imposing price or other restrictions on other unpatented commodities, compulsory acquisition of respondents' commodities, etc.
- 8. Thus, and by these means, respondents seek to effect and maintain a control over the wholesale jobbing and distribution of electrical fittings and supplies.
- 9. Because petitioners purchased the unpatented connectors from a manufacturer thereof who theretofore had been one of respondents' licensees but whose license had

been cancelled, and jobbed them to petitioners' customers for use with electrical outlets and armored cable, respondents instituted suit in the Southern District of New York against petitioners charging them with contributory infringement of the Fullman patent. Petitioners denied infringement and, additionally, asserted invalidity of the patent.

- 10. On March 22, 1938 the District Court filed its opinion (23 Fed. Supp. 920) finding claim 1 of the patent to be valid, claim 2 of the patent to be invalid, and ordered the complaint to be dismissed because plaintiffs had failed to prove that the connectors purchased and resold by petitioners were manufactured by the licensed manufacturer subsequent to the cancellation of its license, rather than prior thereto.
- 11. On April 27, 1938 the District Court entered a final decree to that effect (R. 276).
- 12. On June 28, 1938 petitioners filed a petition for an appeal from that part of the decree which found validity for claim 1 of the Fullman patent, and the order allowing the appeal was entered on the same day (R. 290-291). Respondents filed no appeal then or thereafter from the decree of the District Court, and filed no disclaimer of the invalidated claim 2 until August 19, 1938, 150 days after the opinion of invalidation, and 114 days after the decree to the effect.
- 13. Respondents thereafter (on Oct. 4, 1938) procured a reissuance of the Fullman patent (as Reissue Patent No. 20,873), in which the invalidated claim 2 of the original patent was omitted, validated claim 1 was retained, and two additional claims "broader than claim 1" were added."

^{*}This language is from a letter of respondent, The Thomas & Betts Co., to which reference is made hereinafter (see par. 16).

- 14. On November 9, 1938 the appeal was filed in the Court of Appeals for the Second Circuit.
- 15. On November 10, 1938, respondents presented a motion to the Court of Appeals for a dismissal of the appeal on the ground that the

"bill of complaint having been dismissed by the final decree of the District Court * * all equitable jurisdiction is ousted and the defendants-appellants' appeal merely raises a moot or academic question of law" (R. 301).

At the same time petitioners, under the practice outlined in Railway Engineering E. Co. v. Oregon Short Line R. Co., 79 Fed. (2) 469, C. C. A. 10, moved for a summary judgment of invalidity of the patent in its entirety because of respondents' unreasonable delay in filing disclaimer of the invalidated subject matter under Sections 4917, 4922 of the Revised Statutes. These motions were argued before the Court of Appeals on November 14, 1938.

16. On November 25, 1938, while the motions were pending decision by the Court of Appeals, respondent, The Thomas & Betts Company, addressed the following communication to petitioner, Electrical Fittings Corporation:

"November 25, 1938

"Electrical Fittings Corporation, 663 Broadway, New York City.

Gentlemen:

We enclose herewith a copy of reissue patent #20873 of Fullman patent #1,769,477.

You will notice that claim 2 of the original patent has been disclaimed and that two additional claims have been added, both of which are broader than the original claim 1. We hereby demand that you purchase connectors embodying the improvements claimed and described in this reissue patent from licensees of this company only.

Very truly yours,

THE THOMAS & BETTS Co. (Sgd) Adnah McMurtrie,
Secretary"

The plain inference from this letter is that petitioners will again be sued for infringement of the patent unless respondent's "demand" is complied with.

- 17. The Court of Appeals on December 12, 1938 granted respondents' motion and dismissed the appeal, indicating that it regarded that portion of the opinion and the decree of the District Court which sustained claim 1 of the patent as valid, to be obiter dictum. Petitioners' motion was denied without consideration of its merits (R. 319, 320).
- 18. From the dismissal of the appeal petitioners present this petition for a writ of certiorari.

The Question Presented.

The sole question presented for decision by the Court, in the event a writ of certiorari is granted, is nether or not the defendant in a patent infringement suit has a right of appeal from a decree of the District Court holding one or more claims of the patent in suit to be valid, even though the complaint is ordered dismissed.

^{*} Italics ours throughout.

Reasons Relied Upon for the Grant of a Writ of Certiorari.

The discretionary power of the Court is invoked upon the following grounds:

- 1. The question presented involves an important question of patent law which has never been but should be decided by this Court.
- 2. The Court of Appeals for the Second Circuit has decided an important question of patent law in a way which is in direct conflict with the decision of the Court of Appeals for the Ninth Circuit and with the practice of the Court of Appeals for the Sixth Circuit.
- 3. The Court of Appeals for the Second Circuit in the present case has judicially sanctioned, by refusal of a review, an ingenious device to evade the rules of law stated by this Court in the Lincoln Engineering case (303 U. S. 695), the Carbice case (283 U. S. 27), and the Barber Asphalt case (302 U. S. 458), whereby a patent for a combination of elements is utilized to create a monopoly in one of the unpatented elements thereof, as well as to create a dominating control of wholesale distribution of electrical fittings.
- 4. The Court of Appeals for the Second Circuit, in dismissing petitioner's appeal from the decree of validity of the Fullman patent, has subjected petitioner to the doctrine of res adjudicata which will preclude petitioner from establishing the obvious invalidity of the patent in subsequent litigation which has already been threatened.

WHEREFORE your petitioners respectfully pray that a writ of certiorari be issued out of and under the seal of

this Court directed to the United States Circuit Court of Appeals for the Second Judicial Circuit sitting at New York, New York, commanding the said Court to certify and send to this Court, on a day to be designated, a full and complete transcript of the record and all proceedings in the Circuit Court of Appeals had in this cause, to the end that this cause may be reviewed and determined by this Court; that the judgment of the Circuit Court of Appeals be reversed; and that petitioners be granted such other and further relief as may seem proper.

Samuel E. Darby, Jr., Counsel for Petitioners.

FLOYD H. CREWS,

Of Counsel.

Dated: New York, N. Y., January 5, 1939.

BRIEF FOR PETITIONERS IN SUPPORT OF PETITION FOR WRIT OF CERTIONARI.

Opinions of the Courts Below.

The opinion of the District Court is found at 23 Fed. Supp. 920, and at R. 775.

The opinion of the Court of Appeals is not yet reported but will be found in the printed record (p. 317).

Jurisdiction.

The grounds of jurisdiction are:

- 1. The date of the judgment to be reviewed is December 12, 1938.
- 2. The judgment was rendered in a suit in equity brought under the patent statutes to determine the issues of validity and infringement of Letters Patent of invention.
- 3. The statute under which jurisdiction is invoked is Section 240(A) of the Judicial Code (28 U. S. C. 347, as amended by the Act of February 13, 1925).
- 4. Cases believed to sustain the jurisdiction are:

General-Talking Pictures Corp. v. Western Electric Co. et al., 304 U.S. 175;

Leitch Manufacturing Co. v. Barber Asphalt Co., 302 U. S. 458;

Carbice Corp. v. American Patents Development Corp., 283 U. S. 27.

Statement.

The facts are sufficiently stated in the petition.

Specification of Errors.

The errors which petitioners will urge, if the writ of certiorari is granted, are that the Court of Appeals erred—

- 1. in dismissing the appeal from the decree of the District Court insofar as it adjudged claim 1 of Fullman Patent No. 1,769,947 to be valid.
- 2. in failing to consider and determine the validity of claim 1 of Fullman Patent No. 1,769,947.

Summary of Argument.

The points of argument will follow the reasons relied upon for the grant of a writ of certiorari, and are stated on page 7 of the petition, as well as in the index hereto. For the sake of brevity they are omitted at this point.

ARGUMENT.

POINT I.

The question presented involves an important question of patent law which has never been but should be decided by this Court.

So far as we have been able to find, this Court has never passed upon the question here presented, namely, whether or not the defendant in a patent infringement suit has a right of appeal from a decree which adjudges a patent claim to be valid, but dismisses the complaint on other grounds.*

^{*} Cf. Corning v. The Troy Iron and Nail Factory, 15 Howard 449.

The importance of the question is best illustrated by the situation created in the present case. Petitioners were sued for contributory infringement. The complaint was dismissed because of failure of proof of infringement. The District Court, however, by final decree adjudged validity for the patent claim. In consequence, in any subsequent suit brought against respondents—and one is threatened—petitioners will be faced by the doctrine of res adjudicata because of the final decree in the case between the same parties, and be thereby prevented from questioning the validity of the patent throughout its life.

Moreover, petitioners, being charged merely with contributory infringement, are under the duty, if not the commercial necessity, to openly and avowedly defend any of its customers who may be charged with direct infringement of the patent by reason of acquisition of the unpatented connectors from petitioners. In any and all of such suits petitioners would likewise be faced with the doctrine of res adjudicata, and be precluded from questioning the validity of the patent.

Therefore, by this shrewd device respondents are in the position, summarily and arbitrarily, without notice or hearing, to put petitioners out of business by their control over these unpatented connectors. All they need do is blacklist petitioners with respondents' manufacturer licensees. Petitioners have never manufactured connectors, nor could they then manufacture connectors, because the validity of claim 1, as well as its infringement by such manufacture, is resadjudicata against them.

Moreover, the question is one of great public importance. The statute which created patent monopolies limited the validity of a patent grant to a mere presumption which could be rebutted and overcome in accordance with judi-

cial procedure carefully and precisely outlined. The public interest, and insurance against the creation of a patent monopoly without basis therefor, was therein fully protected by right of appeal and review.

The Court of Appeals below has vitiated this right of petitioners and nullified the statutory protection of the public interest upon the theory that the District Court, having reached the conclusion that the complaint should be dismissed for non-infringement, it should not have passed on the validity of the patent, and that, therefore, the conclusion of the District Court on the subject of validity was, in practical effect, mere obiter dictum. In thus disposing of the case the Court of Appeals overlooked three impelling factors which should have led it to a different conclusion.

- 1. Even if it be assumed that the District Court should not have passed upon the subject of validity, the fact remains that it did do so, and while, under the theory of the Court of Appeals, the conclusion of validity for the patent expressed in the opinion of the District Court may be disregarded as mere obiter dictum, petitioners' appeal is predicated upon the final decree of the District Court, not the opinion. We know of no authority, and the Court of Appeals cites none, to support even the inference that the express provisions of a final decree can be regarded, in legal or other effect, as obiter dictum.
 - 2. In the next place, the doctrine of res adjudicata applies, not only to the parties but to their privies as well, and not only to all matters decided, but to all matters which could have been decided in the suit. The facts in the present case meet the most exacting requirements for the ap-

^{*}Even on this theory petitioners would be unwarrantedly subjected to the doctrines of comity and store decisus.

plication of the doctrine, and there can be no question but that respondents' tactics are dictated by a complete reliance upon the applicability of the doctrine to petitioners in future litigation which respondents have already threatened.

3. Finally, it is the commonly accepted practice in patent infringement suits involving both issues of validity and infringement, for the District Court to make findings and conclusions on both issues for the benefit of the Appellate Court. Considerations, such as final determination of litigated questions, elimination of piecemeal litigation, etc., support such practice. The decision of the Court of Appeals in the present case either throws a cloud on the propriety of such practice, or deprives a defendant in a patent infringement suit of the right of review of any District Judge who arbitrarily or otherwise decrees validity of a patent in an infringement suit which is dismissed on other grounds.

Another measure of the importance of the question here presented resides in a consideration of the position in which respondents have placed themselves in this case. By means of a final decree of one District Court on this patent, and by means of licenses to all known manufacturers of the unpatented connector, respondents have placed themselves in a position whereby domination of the entire business of wholesale jobbing and distribution of complete lines of electrical fittings is effected. This ingenious device will be rapidly seized upon in other industries, and infringement suits started on patents of extremely doubtful validity against alleged infringers as to whom no just claim of infringement can be made. A District Judge may then, as was done in this case, dismiss the complaint for want of infringement, but decree the validity of the patent. Each

defendant in such suits will be deprived of any right of review of the decree of validity, and be precluded throughout the life of such patents from ever questioning the validity thereof. Thus, invalid patents may be set up and dominate industries merely because of arbitrary or ill advised action of a single District Judge.

It is submitted, therefore, that the question presented is of such importance that this Court should grant a certiorari in this case and pass upon it.

POINT II.

The Court of Appeals for the Second Circuit has decided an important question of patent law in a way which is in direct conflict with the decision of the Court of Appeals for the Ninth Circuit and with the practice of the Court of Appeals for the Sixth Circuit.

The question presented in this case was squarely passed upon by the Court of Appeals for the Ninth Circuit in Oliver-Sherwood Co. v. Patterson-Ballagh Corporation, 95 Fed. (2d) 71, as noted in the opinion of the Court of Appeals below. In that case the District Court for the Southern District of California, Central Division, held two of the patents involved in the suit to be valid but not infringed. The plaintiff appealed from the decree of non-infringement, and the defendant appealed from the decree of validity. On the appeal the plaintiff contended that the defendant's appeal could not be heard for the same reason urged by respondents in the present case. The Court, in rejecting the contention, stated (p. 72):

"This position cannot be maintained, although in view of the fact that the plaintiffs by their appeal

have presented an opportunity for the cross-appellants to attack the finding of validity in the plaintiffs' patents, the cross-appellants were not confined to that remedy which might have been destroyed by plaintiffs' dismissing their appeal. It is true that no accounting was ordered and no relief granted against the Patterson-Ballagh Corporation but, as a party to the action, it would be bound in any future litigation between the parties by the adjudication herein that these two patents were valid. The validity of these two patents was placed in issue by the Patterson-Ballagh Corporation, and was litigated and determined adversely to its contentions. So fareas its present design of rubber collars is concerned it might well rest upon the finding of non-infringement, but is not compelled to do so. We therefore hold that the Patterson-Ballagh Corporation on its cross-appeal is entitled to attack the validity of these patents."

From the foregoing it will be seen that there is direct conflict between the decision of the Court of Appeals for the Ninth Circuit, and the Court of Appeals below in the present case, on this very important question of patent law.

Moreover, the Court of Appeals for the Sixth Circuit in the case of Monarch Marking System Co. v. Dennison, 92 Fed. (2d) 90, passed on the merits of an appeal by the defendant from a decree of the District Court holding validity but non-infringement. In that case four patents were involved in the suit. As to two of the patents the District Court decreed validity but non-infringement. Both plaintiff and defendant appealed from the decree. Apparently, no question was raised as to the right of the defendant to appeal from the decree insofar as it found validity. The Court of Appeals raised no question as to such right, and passed on the merits of the appeal.

POINT III.

The Court of Appeals for the Second Circuit in the present case has judicially sanctioned, by a refusal of review, an ingenious device to evade the rules of law stated by this Court in the Lincoln Engineering case (303 U. S. 695), in the Carbice case (283 U. S. 27), and the Barber Asphalt case (302 U. S. 458), whereby a patent for a combination of elements is utilized to create a monopoly in one of the unpatented elements thereof, as well as to create a dominating control of wholesale distribution of electrical fittings.

As hereinbefore pointed out, the patent is for a four element combination forming an old, well known outlet box. The sole novelty of its disclosure resides in the particular construction of but one of its elements, namely the connector, which is unpatented per se. Obviously, therefore, the patent on its face is invalid as being for a mere aggregation under the familiar rule last stated by this Court in the Lincoln Engineering case, 303 U. S. 695. In consequence, the District Judge committed an error of law in sustaining the validity of the patent, which error no doubt will be corrected by the Court of Appeals if petitioners right of appeal is sustained by this Court.

Additionally, it is apparent that respondents are utilizing this patent in a manner and for a purpose which this Court condemned in the Barber Asphalt case, 302 U. S. 458. That case was decided by this Court on January 3, 1938, after the District Court in the case at bar had filed its opinion sustaining the validity of claim 1 of the patent. In consequence, petition for rehearing was filed (R. 279 et seq.) calling to the attention of the District Court the controlling

effect of the decision of this Court in the Barber Asphalt ase. The District Court, however, declined to apply the rule of the Barber Asphalt case, and, thereafter, on April 23, 1938, entered its final decree here complained of (R. 176). Here, again, the error of the District Court undoubtedly will be corrected by the Court of Appeals on review, if petitioners' right of appeal is sustained by this court.

Finally, because the Court of Appeals below concluded hat petitioners were not possessed of the right, of appeal, t declined to pass on the merits of petitioners' motion for summary judgment of invalidity of the patent in its entirety because respondents took no appeal from the decree of invalidity of claim 2, and unreasonably delayed to file a disclaimer thereof for a period of 150 days after the opinion of invalidity, and 114 days after the decree to that effect. There can be no doubt but that if the Court of Appeals had bassed on the merits of this motion it would have found invalidity of the patent, and will so find if petitioners' right of appeal is sustained by this Court.

POINT IV.

The Court of Appeals for the Second Circuit, in lismissing petitioners' appeal from a decree of validity of the Fullman patent, has thereby subjected petitioners to the doctrine of res adjudicata which will reclude petitioners from establishing the obvious intelligible of the patent in subsequent litigation which has already been threatened.

The substance of this point has been covered in the argument presented under Point I hereof. It requires no additional argument beyond the mere statement.

Conclusion.

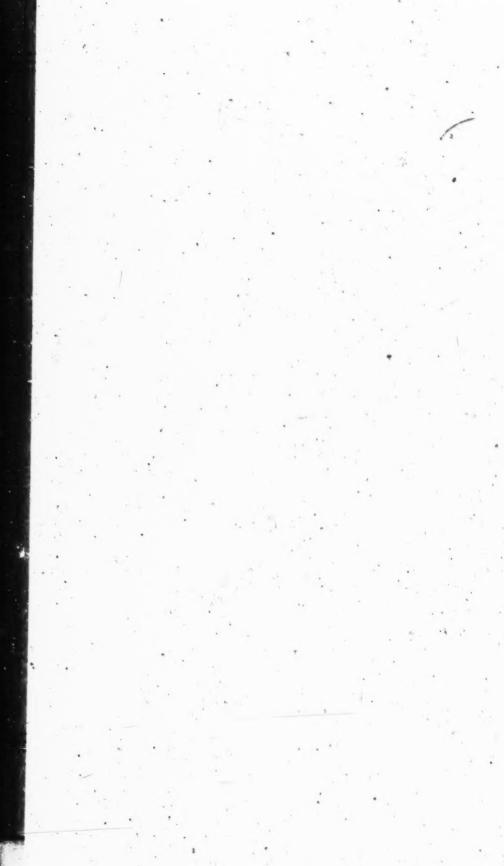
Wherefore, petitioners earnestly pray that the petition for a writ of certiorari be granted, the cause reviewed, and the judgment of the Court of Appeals for the Second Circuit reversed, with instructions to reinstate petitioners' appeal and consider the merits thereof.

Respectfully submitted,

Samuel E. Darby, Jr., Counsel for Petitioners.

FLOYD H. CREWS,

Of Counsel.



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IN THE

Supreme Court of the United States

October Term, 1938

No. 582

ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORATION, SAMUEL JOSELSON, Petitioners,

US.

THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION,

Respondents.

BRIEF FOR PETITIONERS.

Samuel E. Darby, Jr., FLOYD H. CREWS, Counsel for Petitioners.



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Supreme Court of the United States

October Term, 1938

No. 582

ELECTRICAL FITTINGS COMPORATION, Joselson Sales Corporation, Samuel Joselson and Belle Joselson,

Petitioners,

128

THE THOMAS & BETTS CO. and NATIONAL ELECTRIC PRODUCTS CORPORATION,

Respondents.

BRIEF FOR PETITIONERS.

This is a patent infringement suit, here on writ of certiorari to the Second Circuit Court of Appeals.

Opinions of the Courts Below.

The opinion of the District Court for the Southern District of New York is reported at 23 Fed. Supp. 920, and will be found in the record at page 259.

The opinion of the Court of Appeals is reported at 100 Fed (2) 403, and will be found in the record at page 312.

Jurisdiction.

 The date of the judgment to be reviewed is December 12, 1938.

The writ of certiorari was granted by this Court on February 13, 1939.

The jurisdiction of this Court is invoked under Section 240-A of the Judicial Code (28 U. S. C. 347) as amended by the Act of February 13, 1925.

The cases believed to sustain the jurisdiction are:

General Talking Pictures Corp. v. Western Electric Co., et al., 304 U. S. 175;

Leitch Manufacturing Co. v. Barber Asphalt Co., 302 U. S. 458;

Carbice Corp. v. American Patents Development Corp., 283 U.S. 27.

Assignment of Errors.

The errors which petitioners urge, are that the Court of Appeals erred

- (1) in dismissing the appeal from the decree of the District Court in so far as it adjudged claim 1 of Fullman Patent No. 1,769,947 to be valid; and
- (2) in failing to consider and determine the validity of claim 1 of Fullman Patent No. 1,769,947.

Statement of the Case.

- 1. The individual petitioners, Samuel Joselson and Belle Joselson, are part owners and officers of the corporate petitioners of which Joselson Sales Corporation has ceased to be active. Petitioner, Electrical Fittings Corporation, is engaged in the business of wholesale jobbing and distributing electrical fittings, such as outlet boxes, connectors, fuses, plugs, etc.
- 2. The electrical fittings sold by petitioner, Electrical Fittings Corporation, are purchased from the manufac-

turers thereof; none of the petitioners being or having been engaged in the manufacture of these commodities.

- 3. Respondent, National Electric Products Corporation, a Delaware corporation, is recognized as dominating the electrical business in the supply of wires, cables, bushings, fittings, etc. It is the owner of the Fullman patent in suit, and has granted an exclusive license thereunder to respondent, The Thomas & Betts Co., a New Jersey corporation.
- 4. The patent relates to an electrical outlet for connecting wire terminals of a source of current supply to conductors by which the current is conducted to a distant place. Outlets are very old in the electrical art, and have long been regarded as necessary "electrical fittings" in building construction. What is claimed as the invention of the patent by the two claims thereof is a combination of four elements consisting of (1) an armored cable, (2) a bushing of insulating material positioned within the cable, (3) a connector of a particular construction, and (4) means for securing the connector to the armored cable.
- to the combination of the foregoing four elements arranged or assembled in a particular manner, respondents are utilizing the patent to effect and maintain a monopoly in but one of the elements, namely the connector (No. 3 above), which is unpatented per se. This respondents do by granting licenses to all known manufacturers of the unpatented connectors (R. 31, fol. 93), on the condition that the licensees will self the unpatented connectors only at prices fixed by respondent, The Thomas & Betts Co. (R. 214, par. 5) and only to purchasers approved by said respondent and named on a so-called "approved list" which said respondent formulates and supplies to the licensees (R. 216, par. 7). To this

list respondent expressly reserves the right to "from time to time add or remove names" at its will. By means of this paragraph of the licenses respondents are in a position where they can and do dictate to whom unpatented connectors may be sold, thereby dominating and controlling the business in current outlets. In addition, it will be seen that as a condition to including any jobber of electrical equipment on the "approved" list of purchasers of the unpatented connectors, plaintiffs may impose any terms or conditions they may see fit, capriciously, maliciously, or otherwise.

- 6. Because petitioners purchased the unpatented connectors from a manufacturer thereof who theretofore had been one of respondents' licensees (but whose license had been canceled) and jobbed them for use with electrical outlets and armored cable, respondents instituted this suit against petitioners charging them with contributory infringement of the Fullman patent. Petitioners denied infringement and, additionally, asserted invalidity of the patent.
- 7. On March 22, 1938, the District Court filed its opinion (23 Fed. Sup. 920), finding claim 1 of the patent to be valid, claim 2 of the patent to be invalid, and ordering the complaint dismissed because plaintiffs had failed to prove that the unpatented connectors purchased and resold by petitioners were manufactured by the licensed manufacturer subsequent to the cancellation of its license rather than prior thereto. The District Court indicated in its opinion that contributory infringement would have been found had respondents discharged their burden of proof in this regard.
- 8. On April 27, 1938, the District Court entered a final decree to that effect.

- 9. On June 28, 1938, petitioners filed a petition for an appeal from that part of the decree which adjudicated validity for claim 1 of the Fullman patent. This petition was granted on June 28th, and the order allowing the appeal was entered on the same day (R. 290, 291). Respondents filed no appeal then or thereafter from the decree of the District Court; and filed no disclaimer of the invalidated claim 2 until August 19, 1938, 150 days after the opinion of invalidation, and 114 days after the decree to that effect.
- 10. Prior to docketing their appeal, petitioners brought a motion in the District Court to set aside the decree and hold the patent invalid in its entirety under Sections 4917 and 4922 R. S. for unreasonable delay in filing the disclaimer of the invalidated claim 2. The District Court held that its jurisdiction terminated with the allowance of the appeal, and denied the motion without passing on its merits (25 Fed. Supp. 173, and R. 306).
- 11: Respondents thereafter (on October 4, 1938) procured a reissuance of the Fullman patent (as Reissue Patent No. 20,873) in which reissue the invalidated claim 2 of the original patent was omitted, validated claim 1 was retained, and two additional claims "broader than claim 1" ere added."
- 12. On November 9, 1938, petitioners docketed their appeal in the Court of Appeals.
- 13. On November 10, 1938, respondents presented a motion to the Court of Appeals for a dismissal of the appeal on the ground that the

"bill of complaint having been dismissed by the final decree of the District Court * * all equitable juris-

^{*} This quoted language is from a letter of respondent. The Thomas & Betts Co., to which reference is made hereinafter (see par. 14).

diction is ousted and the defendants-appellants' appeal merely raises a moot or academic question of law" (R. 301).

At the same time petitioners, under the practice outlined in Railway Engineering Co. v. Oregon Short Line R. Co., 79 Fed. (2d) 469, C. C. A. 10, moved in the Court of Appeals for a summary judgment of invalidity of the patent in its entirety because of plaintiffs' unreasonable delay in filing the disclaimer (R. 303). These motions were argued before the Court of Appeals on November 14, 1938.

14. On November 25, 1938, while the motions were pending decision by the Court of Appeals, respondent, 'the Thomas & Betts Company, addressed the following communication to petitioner, Electrical Fittings Corporation (R. 311A).

"November 25, 1938

"Electrical Fittings Corporation, 663 Broadway, New York City.

Gentlemen:

We enclose herewith a copy of reissue patent #20873 of Fullman patent #1,769,947.

You will notice that claim 2 of the original patent has been disclaimed and that two additional claims have been added, both of which are broader than the original claim 1.

We hereby demand that you purchase connectors embodying the improvements claimed and described in this reissued patent from licensees of this company only.*

Very truly yours,

The Thomas & Betts Co.
(Sgd.) Adnah McMurtrie,
Secretary.

Emphasis ours throughout.

The plain inference from this letter is that petitioners will again be sued for infringement of the patent unless respondent's "demand" is complied with.

15. The Court of Appeals, on December 12, 1938, granted respondents' motion and dismissed the appeal, indicating that it regarded that portion of the decree of the District Court which sustained claim 1 of the patent as valid to be obiter dictum. Petitioners' motion was denied without consideration of its merits (100 Fed. (2d) 403; and R. 312-314).

The Question Presented.

The sole question presented is whether or not the defendant in a patent infringement suit has a right of appeal from a final decree of the District Court holding one or more claims of the patent in suit to be valid, even though the complaint is ordered dismissed.

Argument.

It is petitioners' position that the question should be answered in the affirmative.

In the first place, there is nothing in the statute (28 U.S. A. 225A, Judicial Code, Sec. 128, amended) which precludes appeal to or review by a Circuit Court of Appeals in such circumstances. To the contrary, the statute provides that the Circuit Court of Appeals

"shall have appellate jurisdiction to review by appeal or writ of error final decisions—First. In the district courts, in all cases save where a direct review of the decision may be had in the Supreme Court under " Section 345 of this Title."

The decree in the case at bar is, of course, a final decree.

In the next place, inasmuch as the decree sustains the validity of a patent grant, thereby establishing a monopoly for the period of its grant to the detriment of the public interest, that public interest necessitates, when called upon to give it, appellate scrutiny of the basis for or the legality of such monopoly. The normal and intended function of an appellate tribunal is to correct the errors of the courts inferior to it.

If the decree of validity for a patent were not reviewable by appeal regardless of all other issues of the case it is self-evident that such decree might never be reviewed by an appellate tribunal even though, as in the case at bar, it was based on fundamental and glaring errors of law. Certainly, the destrines of res judicata, comity, and, conceivably, of stare decises, would lend their weight to the erroneous judgment and tend to its territorial expansion and perpetuation.

The consequences flowing from the holding of the Court of Appeals below that no appeal lies from the final decree in this cause will be self-evident upon consideration of the facts in the present case.

Petitioners were here charged with contributory infringement, and their principal defense to the suit was the invalidity of the patent on numerous grounds; including

- (a) because of want of patentable invention in view of the prior art;
- (b) because of the aggregational character of the claims, the sole alleged novelty residing in the particular construction of one element of an old four-element combination (cf. Lincoln Engineering Corp. v. Stewart-Warner Corp., 303 U. S. 544);

(c) because respondents were utilizing the patent to effect a monopoly in the unpatented commodity (cf. Leitch Manufacturing Co. v. Barber Asphalt Co., 302 U. S. 458; Carbice Corp. v. American Patents Development Corp., 283 U. S. 27).

The District Court erroneously overruled all of the defenses as to claim 1 of the patent and sustained its validity, but decreed the dismissal of the bill of complaint because respondents had not discharged the burden they carried with respect to proof of infringement. The result is that with respect to petitioners the decree of validity of claim 1 of the patent becomes res judicata. Petitioners are under the moral duty and economic necessity of openly defending and protecting their customers in the event one or more of them are sued for direct infringement of the patent by reason of their purchase of unpatented connectors from petitioners. Conceivably, petitioners might even be under contractual obligations to that effect. Further litigation on the patent, as reissued, has already been indicated in the event petitioners do not comply with the "demand" of respondent The Thomas & Betts Co. to acquire their unpatented connectors from licensees of said respondents (see ante p. 6). In any and all such suits petitioners will be estopped from attacking or questioning the validity of this obviously invalid patent (Oliver-Sherwood Co. v. The Patterson-Ballagh Corp., 95 Fed. (2) 71).

Moreover, it is elemental that the estoppel applies not only to what was decreed by the Court in the present case, but to everything which could have been decided in the case with respect to validity of the patent (Cromwell v. Sac County, 94-U. S. 351).

It is believed to be no answer to this situation to imply, as did the Court of Appeals below, that the District Court

of the patent in its final decree. The fact remains that the District, Court did do so, and it was the duty of the Court of Appeals to correct that error, which, of course, it could not do and be consistent with its ruling that the defendant had no right of appeal.

Nor is it an answer for the Court of Appeals to assert (R. 313) that

defendants are estopped from contesting again the validity of that claim. The reason is that the validity of claim 1 was in no sense necessary to support the decree dismissing the bill.

Obviously, the Court of Appeals below was not, and in the present case could not have been called upon to so hold. The estoppel would be effectively pressed in other courts of first instance. And this could not be avoided by the reason advanced by the Court of Appeals for its conclusion, namely, that because the bill was dismissed it was not "necessary" for the District Court to include in the decree a holding of validity. Clearly, the Court of Appeals evaded the issue, and avoided the fact that the District Court did do so.

The Court of Appeals did not and could not point to a single requirement missing in the case at bar, which would free petitioners from the most rigorous prerequisites to complete application of the doctrine of res judicata. (Cf. Cromwell v. Sac County, 94 U. S. 351).

Thus, regardless of what the Court of Appeals below may have thought or believed on the subject of estoppel, the fact remains that petitioners, by the final decree in this case, will forever hereafter be barred by judgment estoppel from questioning the validity of the obviously invalid patent here in suit.

While this Court has not passed squarely on the question here involved, it recently approached that question in the case of Morley Construction Co. v. Maryland Co., 300 U. S. 185, 191. In that case this Court was considering what might be urged upon an appellate court by an appellee, both with and without a cross-appeal, and, speaking through Mr. Justice Carpozo, said:

"Without a cross-appeal, an appellee may 'urge in support of a decree any matter appearing in the record although his argument may involve an attack upon the reasoning of the lower court or an insistence upon matter overlooked or ignored by it.' (cases cited). What he may not do in the absence of a cross-appeal is to 'attack the decree with a view either to enlarging his own rights thereunder or of lessening the rights of his adversary, whether what he seeks is to correct an error or to supplement the decree with respect to a decree not dealt with below' (cases cited)."

Obviously, under the foregoing case, if respondents had taken an appeal from the dismissal of the complaint in this case, petitioners could not have attacked the validity of the patent in the Court of Appeals without filing a cross-appeal directed thereto. How can it be said, however, that petitioners could have filed a cross-appeal on validity under such circumstances when the Court of Appeals has held in the case at bar that petitioners have no right of appeal whatever? We know of no authority to support the proposition that a cross-appeal would lie where a single appeal would not.

Even if it did, if respondents had appealed from the decree dismissing their bill, and petitioners had filed a cross appeal from the decree insofar as it sustained the patent as valid, could respondents have defeated petitioners, right

of review and a hearing on their cross appeal by withdrawing their appeal, or upon the dismissal thereof?

The foregoing question was squarely passed upon by the Court of Appeals for the Ninth Circuit in Oliver-Sherwood Co. v. Patterson-Ballagh Corporation, 95 Fed. (2d) 71, as noted in the opinion of the Court of Appeals below. In that case the District Court for the Southern District of California, Central Division, held two of the patents involved in the suit to be valid but not infringed. The plaintiff appealed from the decree of non-infringement, and the defendant appealed from the decree of validity. On the appeal the plaintiff contended that the defendant's appeal could not be heard for the same reason urged by respondents in the present case. The Court, in rejecting the contention, stated (p. 72):

"This position cannot be maintained, although in view of the fact that the plaintiffs by their appeal have presented an opportunity for the cross-appellants to attack the finding of validity in the plaintiffs' patents, the cross-appellants were not confined to that remedy which might have been destroyed by plaintiffs' dismissing their appeal. It is true that no accounting was ordered and no relief granted against the Patterson-Ballagh Corporation but, as a party to the action, it would be bound in any future litigation between the parties by the adjudication hereinthat these two patents were valid. The validit these two patents was placed in issue by the Patterson-Ballagh Corporation, and was litigated and determined adversely to its contentions.' So far as its present design of rubber collars is concerned it might well rest upon the finding of non-infringement, but is not compelled to do so. We therefore hold that the Patterson-Ballagh Corporation on its cross-appeal is entitled to attack the validity of these patents."

From the foregoing it will be seen that there is direct conflict between the decision of the Court of Appeals for the Ninth Circuit, and the Court of Appeals below in the present case.

Moreover, the Court of Appeals for the Sixth Circuit in the case of Monarch Marking System Co. v. Dennison, 92 Fed. (2d) 90, passed on the merits of an appeal by the defendant from a decree of the District Court holding validity but non-infringement. In that case four patents were involved in the suit. As to two of the patents the District Court decreed validity but non-infringement. Both plaintiff and defendant appealed from the decree. Apparently, no question was raised as to the right of the defendant to appeal from the decree insofar as it found validity. The Court of Appeals raised no question as to such right, and passed on the merits of the appeal. The practice of the Sixth Circuit, therefore, conforms to that of the Ninth Circuit.

Thus it will be seen that the Court of Appeals for the Second Circuit stands alone in the opinion that the question here presented should be answered in the negative. The Court of Appeals for the Ninth Circuit has taken a diametrically opposite view; and the practice of the Court of Appeals for the Sixth Circuit has been in concurrence with that of the Ninth Circuit Court.

The Authorities Cited by the Court of Appeals Below Are Not in Point.

The Court below cited the cases of New Orleans v. Emsheimer, 181 U. S. 153, and P. E. Sharples Co. v. William A. Lawrence & Son; 208 Fed. 886, in support of its decision.

The New Orleans case was based on practice long since discontinued. There a bill in equity was dismissed on de-

murrer "for want of equity with full reservation of complainant's right to sue and proceed at law". The case was decided in 1901. Under practice long since established the bill would simply have been transferred to the law side, and under the present practice there would not even have been a transfer. The Court said:

> "Defendant below sought no affirmative relief but simply to defeat the suit. In this it succeeded and the decree is a bar to another suit in equity on this cause of action so long as it stands unreversed."

Since the plaintiff did not appeal, the Court's finding of want of equity in the bill was conclusive between the parties and completely disposed of all matters in controversy between them in the equity action. It was a bar to a further action. The decision of the Court of Appeals below in the present case does not dispose of all matters in controversy, and the Court held it was not a bar to further action. The cases are therefore clearly distinguished.

In the Sharpless case an action was brought for trademark infringement and unfair competition. The decree of the District Court adjudged the trade-mark invalid, but granted an injunction for unfair competition. Both parties appealed, the plaintiff appealing from the holding of the invalidity of the trade-mark. On the appeal the Third Circuit Court of Appeals sustained the District Court on the findings of unfair competition, but refused to pass on the validity of the trade-mark. The plaintiff therefore secured an injunction against the further use by the defendant of that trade-mark.

It is clear that the decree of the Court completely disposed of all matters in controversy between the parties. The validity of the trade-mark could never again be in controversy between them because the defendant was enjoined from further use of that mark. Therefore a decision on the validity of the mark was unnecessary.

The Court of Appeals below cited this case in support of its holding that no appeal would be permitted, but in that case an appeal was permitted and heard. What the Court there said was that since it had decided one issue which completely disposed of all matters in controversy between the parties, it was unnecessary to decide the other question, although the appeal was properly before it for decision if such decision was necessary. Again the cases are clearly distinguishable. In fact, the Lawrence case, instead of supporting the Second Circuit, indicates that the practice in the Third Circuit conforms to that of the Ninth and Sixth Circuits.

The Court of Appeals below also cited the cases of Lindheimer v. Illinois Bell Co., 292 U. S. 151, and New York Telephone Co. v. Malthie, 291 U. S. 645, in support of the proposition that a successful litigant may not appeal from a decree merely to obtain a review of "findings which he believes erroneous but which are unnecessary to support the decree". We have no quarrel with this proposition, but we fail to see its relevancy to the issue here presented. An examination of the cases cited makes quite evident their want of relevancy.

In the present case petitioners are not seeking a review of "findings" of the District Court. To the contrary, they are asserting their right to appeal from a final decree which they believe to be erroneous, and which, unless reviewed and corrected, will be forever binding upon them under the doctrine of res judicata. It is elemental that a final decree, such as here exists, is the rimary prerequisite to the application of that doctrine. Thus, petitioners' asserted right of

appeal is not predicated upon the "finding" of the District Court which led to the final decree. To the contrary, it is predicated upon the final decree itself, jurisdiction of a review of which is expressly accorded the Court of Appeals by the statute.

It will be seen from the foregoing, therefore, that the Court of Appeals below has cited no authority which supports the dismissal of petitioners' appeal in the present case, and we know of none. As opposed to this, however, the Court of Appeals for the Ninth Circuit has passed squarely on the question here presented in a manner dismetrically opposite to the judgment of the Court of Appeals below; and that the Court of Appeals for the Sixth Circuit has apparently regarded the affirmative answer to the question as being so obvious as not to require comment.

Conclusion.

It is submitted, therefore, that the question presented should be answered in the affirmative, the judgment of the Second Circuit Court of Appeals reversed, and the case remanded to that Court with instructions to reinstate petitioners' appeal and pass on the merits thereof.

Respectfully submitted,

Samuel E. Darby, Jr., Floyd H. Crews, Counsel for Petitioners.



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ELECTRIC PRODUCTS CORPORATION,

Respondents.

REPLY BRIEF FOR PETITIONERS.

1. Respondents' "Supplemental Statement of the Case" is nothing to the statement in petitioners' brief except umentative assertions relative to the merits of the patent mit, with which this Court is not concerned in answering single question here presented. In consequence, petiters will not here discuss that subject, even though it is leved that neither these nor any other arguments can be the obviously invalid patent here involved.

2. On the merits of the issue that is presented responts repeatedly (c. g. pp. 14, 19, 21, 22) misstate the fact which the case is here before the Court. This misstatems is that petitioners are seeking to obtain a review of a ading" of the District Court. That is not the case. To

the contrary, petitioners are asserting their right to a review of a final decree.

3. On page 18 respondents assert that the Court of Appeals below "did not have jurisdiction to review this case" and submit that for that reason "the writ of certiorari should be dismissed". Respondents advance no authority showing or implying want of jurisdiction of the Court of Appeals below. As petitioners pointed out in their main brief (9.7), the statute provides that a Circuit Court of Appeals shall have appellate invisdiction to review find decisions of its District Courts. In view thereof we knew of no reason why the Court of Appeals in the present case did not have jurisdiction, and respondents' brief advances none other than the contention that the decree of the District Court terminated the case in petitioners' favor by denying respondents' prayer for an injunction and accounting. It is self evident that this alleged reason has no bearing on: the subject of jurisdiction.

More er, the reasoning advanced in support of se spondents assertion is fallacious in the extreme. It is asserted (p. 18) that because

"petitioners (defendants below) admittedly claim no title to the patents in suit and no right to an injunction based thereon"

the Court below was without equitable jurisdiction to hear and determine the question here presented

"because all equitable jurisdiction had been ousted".

The fallacy of this reasoning will be self evident when it is remembered that no defendant in an ordinary patent infringement suit claims title to the patent on which he is sued, and has no right to an injunction based on the patent. If these factors are necessary to a right of appeal, as

respondents apparently seem to believe, no defendant in an ordinary patent infringement suit would ever have the right to appeal from an adverse decision where an injunction is denied but the patent held valid and infringed.

Of course, respondents are confused about the matter as the authority cited in support of their statement makes perfectly clear (Peters Patent Corp. v. Bates and Klinke, 295 F. S. 392, 394). In that case this Court quite properly held that a patent infringement suit in equity could not be maintained unless the plaintiff was possessed of the title to the patent and the right to seek an injunction to restrain infringement thereof. Obviously, title to the patent was necessary to maintain the action, and the plea for injunctive relief gave jurisdiction in equity. Apparently it is respondents' contention that because an injunction was denied in the present case the cause is no longer in equity and, in consequence, the Court of Appeals below is ousted of equitable jurisdiction. We regard such contention as without merit, for it is the decree entered by the District Court, after having assumed equitable jurisdiction at respondents' solicitation, that is sought to be reviewed.

4. Nor does petitioners' question here presented raise only 'a most or academic question' as respondents urge (p. 19). As pointed out in petitioners' main brief (p. 8), the validity or legal basis for any monopoly, created by statute or otherwise, is never a most or academic matter because it affects the public interest as well as petitioners' private interest. If the present final decree of validity of the patent is allowed to stand without review it forever binds petitioners under the doctrine of res judicata, as petitioners' brief has pointed out and respondents nowhere deny. It is not a case of "assumed potential invasions," as implied by respondents (p. 19). Quite to the contrary, it

is an actual, outstanding decree constituting the final and absolute law on the subject as between petitioners and respondents.

Thus, though respondents conclude their brief by asserting (p. 32) that

> "petitioners will have an opportunity to raise, at the proper time and place, any matter of a justiciable character"

and cite in support thereof the language of the Court of Appeals below to the effect that petitioners

"may still raise the issue (of validity) if and when suit is brought against them for infringement of against any customer whom they may feel obligated to defend" (Matter in parenthesis ours)

respondents nowhere deny or cite authority to negative the fact that the doctrine of res judicata would be completely applicable in the present case, and would forever preclude petitioners from attacking the validity of the patent by reason of the unreviewed final decree in the present case. The quoted remark of the Court of Appeals has no binding legal effect even on respondents, much less on other courts before whom future litigation would come. It is self evident, therefore, that the authorities cited by respondents ipp. 20, 21) are not in point. So far as the issue of validity of the patent is concerned, this is a continuing "controversy" which is "actual" and involves "real" as well as "substantial rights of the parties", and which has not been "extinguished" by the final decree of the case.

5. Finally, this Court in Corning et al. v. The Troy and Nail Factory, 15 How. 449, cited and discussed by respondents (pp. 22, 25), did not have before it and did not pass on the question here presented. Quite to the contrary, the

final decree in that case (reproduced in full in Troy Iron and Nail Factory v. Corning, 14 How. 194) was

"Therefore it is ordered, adjudged and decreed that the said bill of complaint be, and the same is hereby dismissed, with costs to be taxed, and the defendants have execution therefor."

The recitation of validity of the patent preceded the decree in the same document. As distinguished therefrom, in the case at bar the validity of the patent is decreed—it forms the decree itself. This distinction was recognized by this Court in the second consideration of the Corning case in 15 How. 465, and it was expressly pointed out:

"But the matter complained of (the holding of validity) forms no part of the decree of the Court below." (Matter in parenthesis ours.)

It is obvious, therefore, that the Corning case is neither controlling nor applicable to the one at bar.

Conclusion.

The question presented should be answered in the offirmative and the judgment of the Second Circuit Court of Appeals reversed, and the cause remanded to that Court with instructions to reinstate petiti mers' appeal and to pass on the merits thereof.

Respectfully submitted:

Samuel E. Darby, Jr., FLOYD H. Chews, Counsel for Petitioners.

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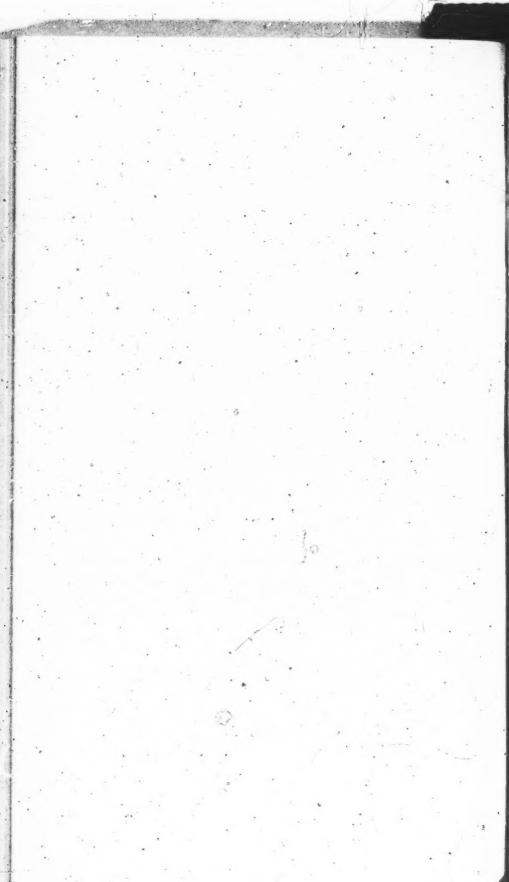
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Supreme Court of the United States

October Term. J38

No. 582

ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORATION, SAMUEL JOSELSON AND BELLE JOSELSON

Petitioners

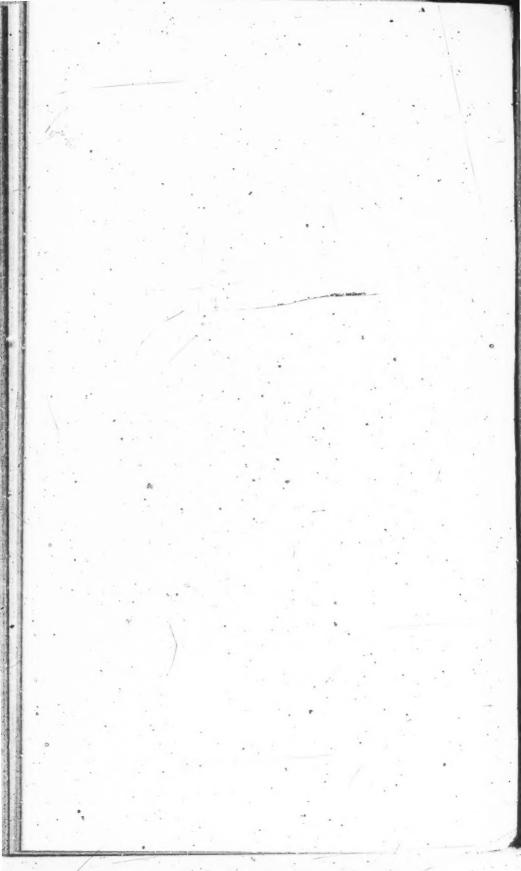
THE THOMAS & BETTS CO. AND NATIONAL ELECTRIC PRODUCTS CORPORATION

Respondents

BRIEF OF THE THOMAS & BETTS CO. AND NATIONAL ELECTRIC PRODUCTS CORPORA-TION IN OPPOSITION TO PETITION, ENTITLED AS ABOVE, FOR WRIT OF CERTIORARI

> BOHLEBER & LEDBETTER Attorneys for Respondents

WILLIAM BOHLEBER FRANCIS H. FASSETT Of Counsel



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Supreme Court of the United States

October Term, 1938

No. 582

 ELECTRICAL FITTINGS CORPORATION, JOSES-SON SALES CORPORATION, SAMUEL JOSEL-SON and BELLE JOSELSON,

Petitioners.

v.

THE TNOMAS & BEUTS CO. and NATIONAL ELECTRIC PRODUCTS CORPORATION,

Réspondents.

Brief of the Thomas & Betts Co. and National Electric Products Corporation in Opposition to Petition, Entitled as Above, for Writ of Certiorari

To the Honorable, The Chief Justice and Associate
Justices of the Supreme Court of the United States:

This is an ordinary patent suit involving no questions of law or public importance, no conflict of opinions, and no other questions, such as are indicated in Rule 38, subdivisions 58, 5b and 5c, of this Court.

The decision of the Court below, dismissing petitioners' (defendants') appeal, is reported at 39 U.S. Pat. Q. 509, and at R. 312. The decision of the District Court is reported at 23 Fed. Supp. 920 and at R. 259. See R. 276 for the decree of the District Court. The decision of the District Court with a spect to the filing by respondents of

the disclaimer as to Claim 2 of the patent in suit has not been reported but will be found in the record (p. 306).

If the single question, as presented in the Petition and by petitioners' (defendants') brief, were not so seriously complicated and confused by erroneous and extravagant statements of law and facts, other than those necessary for its determination, including arguments based upon matters which the District Court specifically found were not supported by the record, respondents would be reluctant to file a brief in opposition thereto of the character here presented, if any.

It is to be noted that the statement by petitioners of the question presented is subtly misleading and stated so broadly it appears to have been calculated to convey the impression that the question here presented is the same as that presented in Oliver-Sherwood Co. v. Patterson Ballagh Corp., 95 F. (2d) 71 and Monarch Marking System Co. v. Dennison, 92 F. (2d) 90 (C. C. A. 6).

Respondents Re-state Question Presented by Petitioners

Based upon the record facts of this case the question presented should be re-stated as follows:

The sole question for decision of this Court, in the event a writ of certiorari is granted, is whether or not, in an ordinary patent infringement suit in which the defendants sought no affirmative relief and in which, after a hearing upon the merits, a final decree is entered dismissing plaintiffs' bill of complaint (a) as to contributory infringement, (b) for an injunction, and (c) for an accounting, and in which plaintiffs did not appeal from said dismissal on any grounds, the defendants have a right of ap-

peal from a finding of the District Court on an issue specifically raised for determination by defendants' answer to the Bill.

It does not appear in the sole question presented by petitioners that their answer to the bill sought no affirmative relief and that respondents did not appeal on any ground from the final decree dismissing the bill of complaint. Nor do petitioners state, as does the Court of Appeals in its decision below, R. 313, "that the defendants have already received all the relief they can obtain in this action." Accordingly, respondents submit that the question presented by petitioners is inaccurate and misleading.

It may not be amiss to point out the usual issues in a pater infringement suit are validity and infringement and that they are terminated in one of the following ways:

(1) claim sued upon held valid and infringed; (2) claim sued upon held valid but not infringed; (3) claim sued upon held not infringed, and (4) claim sued upon held invalid. Where the claim sued upon has been held valid and infringed plaintiff is entitled to an accounting, and if an accounting is desired an interlocutory decree is entered. In all other cases a final decree is entered dismissing the bill.

As the Decree of the District Court Terminated the Case in Petitioners' (Defendants') Favor by Denying Respondents' (Plaintiffs') Prayer for an Injunction and an Accounting, the Court Below Did Not Have Jurisdiction

The bill of complaint in this case was dismissed by the District Court (R. 276). Respondents (plaintiffs below) did not appeal from the final decree of dismissal. Peti-

tioners (defendants below) admittedly claim no title to the patent in suit and no right to an injunction based thereon. Hence, the lower Court was without equitable jurisdiction to hear and determine the question even as presented. Peters Patent Corp v. Bates & Klink, Inc., 295 U. S. 392, 394; 79 L. Ed. 1498, 1500.

Determine "A Moot Case"

Petitioners Are Seeking to Have This Court Consider "A Moot or Academic Question of Law" or Judicially

Respondents, plaintiffs below, respectfully submit that this petition must be denied also upon the ground that the bill of complaint having been dismissed by final decree of the District Court, from which decree respondents did not appeal, thus denying respondents' prayer for an injunction and an accounting, the obvious result is that all equitable jurisdiction of the Court below has been ousted and petitioners have therefore raised, based on the record below, only a moot or academic question of law or a moot case with which this Court is not concerned, and cannot be required to answer. This Court, in the case of Triplett v. Lowell, 297 U. S. 638, 649, 80 L. Ed. 949, 956,

said:

"We are not required to answer academic questions, or questions which may not arise in the pending controversy. See White v. Johnson, supra (282 U. S. 373, 75 L. Ed. 394, 51 S. Ct. 115); United States v. Hall, 131 U. S. 50, 33 L. Ed. 97, 9 S. Ct. 663, supra; Webster v. Cooper, 10 How. 54, 55, 13 L. Ed. 325, 326." (Emphasis ours.)

The judicial power does not extend to the determination of abstract questions; and claims based merely upon "assumed potential invasions" of rights are not enough to.

warrant judicial intervention. See, Ashwander v. Tennessee Valley Authority, 297 U. S. 288, 324, 80 L. Ed. 688, 698-9.

We know of no case where an appeal to this Court or to the Circuit Court of Appeals of any circuit has ever been allowed to a defendant from the dismissal of a bill of complaint upon its merits, where the appeal merely presented a moot question of law or a moot case. Cf. Sections 2906, 2958, 2969 and 2978, Cyclopedia of Federal Procedure.

Defendants are not under injunction. Compare the following: Gamewell Fire-Alarm Tel. Co. et al. v. Municipal Signal Co. et al., 61 Fed. 208 (C. C. A. 1); Lockwood et al. v. Wickes, et al., 75 Fed. 118 (C. C. A. 8); and Chapin v. Freidberger-Aaron Manufacturing Co., 158 Fed. 409 (C. C. A. 3).

Where, as here, petitioners sought to dismiss respondents' bill of complaint on two counts, namely, (1) invalidity of the patent in suit, and (2) non-infringement, and have prevailed, albeit the Court's opinion is based upon only one of said grounds, namely, non-infringement, petitioners have obtained full relief against the respondents and are not entitled to urge, on appeal, or in a petition to this Court for a writ of certiorari, that the decree in this case should have been based on both grounds, and thus obtain a review of a finding of validity as to one of the claims of the patent in suit. P. E. Sharpless Co. v. William A. Lawrence & Son (C. C. A. 3), 208 Fed. 886; New York Telephone Company v. Maltbie, 291 U. S. 645, 78 L. Ed. 1041, 54 S. Ct. 448; Lindheimer v. Illinois Bell Telephone Co., 292 U. S. 151, 176, 78 L. Ed. 1182, 1197.

Comment or Correction Concerning the Sole Question Presented and Some of the Statements in the Petition and Brief Filed in Support Thereof

Decision of the Court Below States the Law

The Court below, at the bottom of the page (R. 313), states the law applicable to this question as respondents understand it to be, as follows:

"A party may not appeal from a decree, which terminated in his favor the entire cause of action sued on, merely to obtain a review of findings, which he believes erroneous, but which are unnecessary to support the decree. Lindheimer v. Illinois Bell Telephone Co., 292 U. S. 151, 176; N. Y. Telephone Co. v. Maltbie, 291 U. S. 645." (Emphasis ours.)

Petitioners' Question is Not Based Upon a Conflict of Decisions

There is no conflict between the decision of the Court below (R. 312) and the decision of the Circuit Court of Appeals in the Ninth Circuit and the practice of the Cir-

emit Court of Appeals in the Sixth Circuit, as stated on page 7, paragraph 2, of the petition. The Ninth Circuit case relied upon by petitioners is that of Oliver Sherwood and Co. v. Patterson-Ballagh Corporation, 95 F. (2d) 71, C. C. A. 9. In that case, unlike the case at bar, the plaintiff appealed from the decree of non-infringement. In Monarch Marking System Co. v. Dennison, 92 F. (2d) 90, C. C. A. 6, covering what the petitioners describe as "the practice" in the Sixth Circuit, both plaintiff and defendant appealed from the decree.

Barber Asphalt Case, 302 U. S. 458, 82 L. Ed. 371

Petitioners state at page 16, that respondents are utilizing the patent in a manner and for a purpose which this Court condemned in the *Barber Asphalt* case, 302 U. S. 458, 82 L. Ed. 371. This is not true. The District Court in this case found (R. 268, fol. 802) that "the plaintiffs' connectors are not, in my opinion, standard articles of commerce". The decision of this Court in the *Barber Asphalt* case, supra, reads in part as follows:

"The following facts were proved or admitted."
"The Barber Company and Leitch Manufacturing Company are competing manufacturers of bituminous emulsion—an unpatented staple article of commerce produced in the United States by many concerns and in common use by their customers for many purposes." (Emphasis ours.)

Notwithstanding petitioners' extravagant statement concerning the relevancy to the instant case of the holding of this Court in the Barber Asphalt case, the foregoing shows that the controlling facts before the Court in the Barber case are not present in the case at bar.

No Question of Price Control Involved in This Care

All matters presented and discussed in paragraphs 6, 7, 8 and 9 of page 3 of the petition with respect to respondents' price control, etc., were presented to the District Court and with respect thereto the following findings were made in its decision (R. 268, fols. 803, 804):

1. "There is no proof in this case that any effort

has been made to effect price control."

- 2. "Plaintiffs' connectors are not, in my opinion, standard articles of commerce."
- 3. "There is no evidence in this case that commercial success was due to any unusual promotional efforts." (Emphasis ours.)

Note also the admission (R. 289) of counsel for petitioners at the argument before the District Court on defendants' petition for rehearing, as follows:

"Mr. Crews: I offered the answers to the interrogatories and I haven't raised any question as to

the legality of price-fixing.

"The Court: I realize that. That is my reason for the interruption of Mr. Fassett's reading of those citations. The question of the legality of price-fixing is not the question. At any rate it was not argued before me." (Emphasis ours.)

Petitioners Paint With a Wide Brush

Respondents confidently believe that one cannot read the petition and consider the record in this case without having it clearly appear that petitioners have painted their case with a wide brush. Accordingly, respondents' position is that (1) if petitioners, as stated at page 16 of brief, honestly believe that "the patent on its face is invalid" and (2) if petitioners, as stated on page 17, honestly believe that "the patent in its entirety" is invalid because of respondents' unreasonable delay in filing a disclaimer of claim 2 which was held to be invalid by the District Court, and (3) if petitioners, as stated on pages 6 and 11, are correct that petitioners "will again be sued" or that further litigation "is threatened", under the patent in suit, it would seem that petitioners should have no hesitancy in conducting themselves accordingly. Petitioners certainly know that under the law of laches respondents are under the duty to protect their patent rights and that necessarily in the natural course of things petitioners will have an opportunity to raise, at the proper time and place, any matter of a justiciable character.

In Conclusion

In view of all of the foregoing, respondents submit that as a matter of law based upon the record facts, the petition herein for a writ of certiorari to the Circuit Court of Appeals for the Second Circuit should be denied.

Respectfully submitted,

Bohleber & Ledbetter, Attorneys for Respondents.

WILLIAM BOHLEBER,
FRANCIS H. FASSETT,
Of Counsel.

New York, N. Y., January 27th, 1939.

FILLET

APR 7 1939

CHARLES ELHORE DROPLEY

IN THE

Supreme Court of the United States October Term, 1938

No. 582

ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORATION, SAMUEL JOSELSON AND BELLE JOSELSON

Petitioners

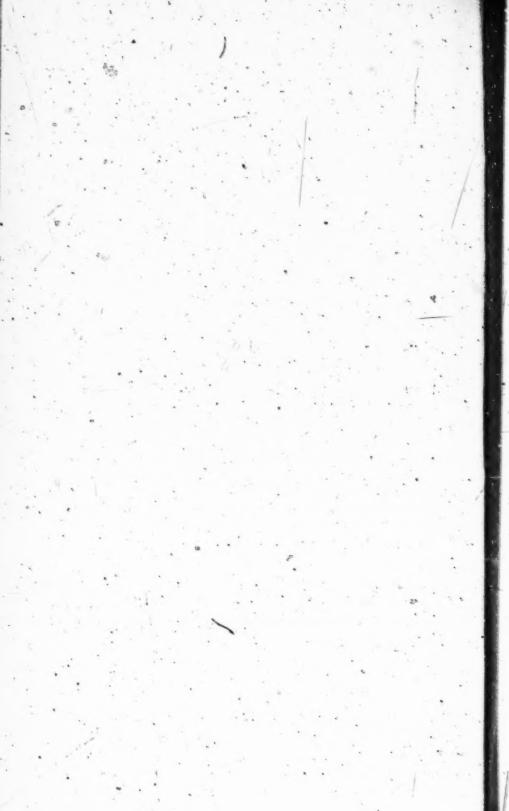
THE THOMAS & BETTS CO. AND NATIONAL ELECTRIC PRODUCTS CORPORATION

Respondents

BRIEF FOR RESPONDENTS

GEORGE WHITEFIELD BETTS, JR. WILLIAM BOHLEBER FRANCIS H. FASSETT

Counsel for Respondents



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Supreme Court of the United States

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October Term, 1938

No. 582

ELECTRICAL FITTINGS CORPORATION, JOSEL-SON SALES CORPORATION, SAMUEL JOSEL-SON and BELLE JOSELSON,

Petitioners,

vs.

THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION,

Respondents.

BRIEF FOR RESPONDENTS

The question presented by petitioners for determination in this case is quite simple when considered apart from the many erroneous and extravagant statements of law and fact in petitioners' brief.

While it pains respondents to file a long brief in opposition to a simple question, the same appears to be justified by a desire to completely answer every point, relevant or otherwise, raised directly or indirectly by petitioners in support of their question and thus show affirmatively that there is nothing unusual lurking in the record of this case which can be said to compel the attention of this Court.

Supplemental Statement of the Case

1. In their brief on page 3, paragraph 3, petitioners state:

"Respondent, National Electric Products Corporation, a Delaware Corporation, is recognized a dominating the electrical business in the supply of wires, cables, bushings, fittings, etc." (Emphasis ours.)

There is no support in the record for this statement and petitioners cite none. This statement is calculated to convey to this Court a wholly erroneous impression concerning one of the respondents. At the time of the trial of this case respondent National Electric Products Corporation was not even a licensee under the patent in suit (R. 20, fol. 60) although it was vested with the legal title thereto, as stated in the opinion of the district court (R. 261, fol. 783; 23 F. Supp. 920, 921).

While a consideration of the invention covered by the patent in suit is not necessary for a determination by this Court of the question presented, a brief statement concerning the same will be helpful in considering, in their true light, many statements in paragraphs 4, 5 and 6 on pages 3 and 4, and elsewhere in petitioners' brief. Respondents submit that standing alone, these paragraphs contain other statements just as misleading as is the first sentence from paragraph 3, page 3, of petitioners' brief quoted above.

2. The patent in suit (R. 158) is entitled Connector for Electrical Conduits. The invention covered by this patent resides in the novel combination of elements in which the function of visibility through niches or peepholes in a connector inherently plays a part never before

olayed in a similar environment. As defined in claim a of the patent in suit the invention comprises, in combination, several elements, including the four set forth in paragraph 4, page 3, of petitioners' brief, one of which petitioners describe as element (3) "a connector of paracular construction." The peculiarity of this third element of the combination is defined in terms of sub-elements, not mentioned by petitioners, including "inversely projecting fingers adapted to bear upon" the choulder of a bushing and retain the bushing in place. The spaces between the fingers were also described at the trial of the case (R. 38, fol. 112, R. 268, fol. 802), as "niches" and also as "peepholes" (R. 264, fol. 790).

The novelty and validity of claim 1 of the Fullman patent, therefore, resides in a new structural combination ncluding fingers which provide peepholes or niches brough which a bushing is visible for purposes of inpection, such for example as required by the National Board of Fire Underwriters (R. 264, fol. 792 to 795), and which retain the bushing in place. The effect of the ingers and peepholes is to impart a new result or funcion to the entire combination of elements recited in claim 1. So important was this invention that shortly after the grant of the patent in suit the regulations of he National Board of Fire Underwriters were amended o require the use of connectors having the advantageous eatures covered by the Fullman patent (R. 266, fol. 796). The District Court recognized both the new structure and functions of the combination. See the following language n its opinion, 23 Fed. Supp. 920, 923 (R. 267), to wit:

"While the other elements of claim #1 in suit may be found separately in the defendants' exhibit patents, in none of them is found the particular type of fingers having the double function

of bearing upon the bushing and retaining the bushing in place; in fact fingers are not found in defendants' exhibit patents having either one of these functions."

"As the mechanical construction of these fingers is different from those of the exhibit patents and as they perform functions not found in those patents, the Court is of the opinion that they are more than a simple mechanical change from the prior art and that they exhibit an exercise of an inventive thought, and that, therefore, claim #1 is valid." (Emphasis ours.)

- 3. The value of the invention is made manifest from the fact that when cable connectors like those covered by the patent in suit were first put upon the market they were received with great enthusiasm and practically replaced (R. 27) the old connector (Exhibit 17) and also from the further fact that respondents and their licensees have sold in excess of 70,000,000 connectors like those defined in claim 1 at a gross selling price in excess of \$1,500,000 (R. 270, fols. 809-810; 23 Fed. Supp. 920, 925).
- 4. A petition for rehearing (R. 279) was brought in the District Court by petitioners here, and after a full hearing denied (R. 287, fols. 860-861).
- 5. At final hearing, two types of connectors were before the District Court; namely a set screw connector, Exhibit I (R. 17) and a squeeze connector, Exhibit 2 (R. 17). A picture of each of these connectors appears in the bill of complaint (R. 7). The only difference between these two connectors (Exhibits 1 and 2) is the means by which they are fastened, respectively, to the "armored cable" referred to in the claim. Hence, as their names imply, "a set screw connector" employs a set screw as the means

for fastening the same to an armored cable, while "a squeeze connector" employs a clamp for the same purpose.

6. For twenty years or more (R. 26) connectors like Exhibit 17, identically the same as Exhibits 1 and 2 and illustrated in the bill of complaint (R. 7), except that they had no niches and fingers at the mouth, were used in the trade. Connector Exhibit 17 may therefore be referred to as a smooth mouth connector.

The testimony of respondents' witness, Mr. McMurtrie (R. 26), in this regard is as follows:

"I am generally familiar with the commercial practice of various devices employed in connection with the connecting of cables and wires to outlet boxes which was in use prior to the granting on July 8, 1930, of the Fullman patent in suit. They used connectors with mouths similar to the one which I hold in my hand.

"The Court: Which will be marked Exhibit 17 for Identification.

(Marked Plaintiffs' Exhibit No. 17 for Identification.)

"Q. How long had that been in use, Mr. Mc-Murtrie? I am referring to—

"The Court: Exhibit 17.

"Q. (Continuing.) —Exhibit 17. A. You mean the mouths—connectors with the mouths—

"Q. The connector itself. A. The connector itself, about twenty years, maybe thirty." (Emphasis ours.)

Concerning Respondents' Exhibit 17 the District Court said (R. 263, fol. 789; 23 F. Supp. 920, 922):

"There was offered in evidence (Plaintiffs' Ex. 17) a type of set screw connector conceded to have been in use for many years and of which the set screw type of plaintiffs' connector is a counterpart in every particular except one and in that respect the improvement constitutes the basis of the claimed invention." (Emphasis ours.)

- 7. All matters presented and discussed in paragraphs 3, 4, 5 and 6 of pages 3 and 4 of petitioners' brief with respect to respondents' use, and that of its licensees, of the Fullman invention, were presented to the District Court and with respect thereto the following findings were made in its decision (R. 268, fols. 803, 804; 23 F. Supp. 920, 924):
 - "There is no proof in this case that any effort has been made to effect price control.
 - 2. "Plaintiffs' connectors are not, in my opinion, standard articles of commerce.
 - 3. "There is no evidence in this case that commercial success was due to any unusual promotional efforts." (Emphasis ours.)

Note also the admission (R. 289) of counsel for petitioners at the argument before the District Court on defendants' petition for rehearing, as follows:

"Mr. Crews: I offered the answers to the interrogatories and I haven't raised any question as to the legality of price-fixing.

"The Court: I realize that. That is my reason for the interruption of Mr. Fassett's reading of those citations. The question of the legality of price fixing is not the question. At any rate it was not argued before me." (Emphasis ours.)

8. At page 3, paragraph 5, of their brief petitioners infer that respondents

"by granting licenses to all known manufacturers of the unpatented connectors" (Emphasis ours.)

are making some unlawful use of their patent monopoly. It is palpably extravagant to state that respondents granted licenses to "all known manufacturers" of devices of this kind. The testimony (R. 31, fols. 92-93) is that the respondent, The Thomas & Betts Co., did not know how many manufacturers there were and petitioners offered no evidence to prove any such fact.

Also in paragraph 5, page 3, petitioners assert that . licensees of respondent, The Thomas & Betts Co., sell only to purchasers approved by said respondent and named on a so-called "approved list" which said respondent formulates and supplies to the licensees. Petitioners therefore conclude at the top of page 4 that by means of this paragraph of the license agreements respondents are in a position to and "do dictate" to whom connectors may be sold thereby dominating and controlling the business in current outlets. With respect to said statement and conclusion the amusing fact is that there is no evidence in the record that such an "approved list" of purchasers ever existed. As a matter of fact no approved list of purchasers was ever made or used pursuant to paragraph 7 of the standard license (shown at R. 216). But even if there were such an "approved list" respondent, The Thomas & Betts Co., would be clearly within its rights in saying to its licensees to whom the connectors may or may not be sold and at what price they should be sold. See E. Bement & Sons v. National Harrow Company, 186 U. S. 70, 46 L. Ed. 1058; Heaton-Peninsula Button-Fastener Co. v. Eureka Specialty Co., et al., 77 Fed. 288, 294; Radio Corporation v. Hyv. General Electric Co. et al., 272 U. S. 476, 71 L. Ed. 362; and American Equipment Co. v. Tuthill B'ld'g Material Co., 69 F. (2d) 406 (C. C. A. 7). Furthermore petitioners themselves have always been able to purchase their connector requirements from The Thomas & Betts Co. or from any of its licensees under the patent in suit. See answer to bill (R. 14, fol. 42). Apparently petitioners fear that respondents will cut off their supply. The answers to that are very simple, indeed, namely: first, that respondents never have; and second that respondents patent gives them that very right and protection.

Even if respondents were dealing in a standard article of commerce they could, in the absence of a contract in restraint of interstate trade or commerce, carry on their business by selling to whom they pleased. Indeed, under their constitutional rights in respect to private property, respondents may if they choose refuse to deal with petitioners, whatever their reason may be, since there is no legal obligation whatever on a trader or manufacturer in carrying on an entirely private business to sell its or his goods to anyone if, for any reason, he is not disposed to do so.

In this connection, reference is made to *United States* v. *Colgate*, 250 U. S. 301, 63 L. Ed. 992, 997 in which this Court, referring to the Sherman Act, said:

"In the absence of any purpose to create or maintain a monopoly, the act does not restrict the long-recognized right of trader or manufacturer engaged in an entirely private business, freely to exercise his own independent discretion as to parties with whom he will deal. And, of course, he may announce in advance the circumstances under which he will refuse to sell. 'The trader or manufacturer,

on the other hand, carries on an entirely private business, and may sell to whom he pleases' United States v. Trans-Missouri Freight Asso. 166 U.S. 290, 320, 41 L. Ed. 1007, 17 Sup. Ct. Rep. 540. 'A retail dealer has the unquestioned right to stop dealing with a wholesaler for reasons sufficient to himself, and may do so because he thinks such dealer is acting unfairly in trying to undermine his trade.' Eastern States Retail Lumber Dealers Assoc. v. United States, 234 U. S. 600, 614, 58 L. Ed. 1940, 1500, L. R. A. 1915A, 788, 34 Sup. Ct. Rep. 951. See also Standard Oil Co. v. United States 221 U.S. 1, 56, 55 L. Ed. 619, 643, 34 L. R. A. (N. S.) 834, 31 Sup. Ct. Rep. 502, Ann. Cas. 1912D, 734; United States v. American Tobacco Co. 221 U. S. 106, 180, 55 L. Ed. 663, 694, 31 Sup. Ct. Rep. 632; Boston Store v. American Graphophone Co., 246 U. S. 8, 62 L. Ed. 551, 38 Sup. Ct. Rep. 257, Ann. Cas. 1918C, 447." (Emphasis ours.)

It is interesting to note in this same connection that any licensee enjoys the utmost freedom at any time to cancel his license. See paragraph 10c of the license agreement (R. 219) as follows:

"10c. This license may also be cancelled and terminated by either the Licensor or the Licensee on not less than sixty days notice sent by registered mail or telegraph to the other party hereto setting forth therein the date of termination of the license and the Licensor and the Licensee agree that the license shall end and be considered terminated as of the date set forth in such notice."

As stated above, respondent, National Electric Products Corporation, at the time of the trial was not even a licensee under the patent in suit. The testimony (R. 20, fol. 60) is that "the National Electric Products Corpora-

tion license has been cancelled". Other licenses have been cancelled.

- 9. Respondents' particular connector is patented in combination with the other elements defined in claim 1. The District Court found that these connectors were not "standard articles of commerce" (R. 268, fols. 803, 804) because petitioners failed to show that they had any utility apart from the combination claimed. The only unpatented connector in this case therefore is Exhibit 17 which has been known for twenty years and which any one is free to manufacture, sell and use.
- . 10. At page 4, paragraph 5, petitioners also intimate that respondents are "dominating and controlling the business in current outlets" by the manner in which they employ their patent. This is wholly incorrect because, first, there is no evidence thereof and, second, the business of dealing in current outlets as well as wires, cables, bushings, and other "electrical fittings" may be conducted now just as it was prior to the grant of the patent in suit by using the old connectors. Exhibit 17. Respondents' answer therefore to the statement that they dominate and control the business in current outlets is that the same cannot be true when the public is free to use, if it chooses to do so, a smooth mouth connector like Exhibit 17, that is, one without fingers or niches. Moreover, by the use of the invention of the patent in suit respondents cannot, for the same reason, "dominate the electrical business in the supply of wires, cables, bushings, fittings, etc." as petitioners state in paragraph 3, page 3, of their brief, because anyone is perfectly free to manufacture and sell wires, cables, bushings and other "electrical fittings" whether used with respondents' connectors, Exhibit 1 and Exhibit 2 (R. 7), or with the old type con-

nector Exhibit 17 which is a standard, inpatented article of commerce. In this connection, see the following from the opinion of the District Court (R. 268; 23 Fed. Supp. 920, 924):

"It is conceded by plaintiffs that they do not seek to have the claims in the Fullman patent given a construction broad enough to prevent anyone from using old and unpatented bushings, cables or conduits, with the peephole connecters furnished by the plaintiffs or their authorized licensees which, of course, they could not do. (bassick Mfg. Co. v. R. M. Hollingshead Co., 298 U. S. 415.)

11. In paragraph 10, page 5, of petitioners' brief it is asserted that petitioners brought a motion in the District Court to set aside the decree and hold the patent invalid in its entirety under Sections 4917 and 4922 5. S. for unreasonable delay in filing a disclaimer of the invalid claim 2. The record before this Court does not show that such a motion was brought in the District Court but that is admitted by respondents and that the same culminated in the decision of the District Court (R. 306, 25 Fed. Supp. 178).

An appeal having already been taken said motion was clearly informal, and at the hearing thereon respondents advised the District Court that if petitioners had any remedy at all, it was not by way of a motion but by way of petition to reopen and that so far as respondents were concerned the District Court might treat said motion, as it did, as a petition to reopen. Respondents contended at the hearing thereon that the motion, even treated as a petition to reopen, was, as a matter of law, without merit; and that if the District Court was of the opinion that the case should be reopened to determine the merits of petitioners' petition the practice outlined in Roemer v. Simon,

91 U. S. 149, 23 L. Ed. 267 and in *Baltimore S. S. Co.* v. *Phillips*, 9 F. (2d) 902, should be followed.

In said paragraph 10, page 5, petitioners also erroneously assert that the District Court held that its jurisdiction terminated with the allowance of the appeal and therefore denied defendants' motion without passing upon the merits. That is incorrect. As a matter of fact, the District Court said (R. 307; 25 Fed. Supp. 173, 174):

"But the Court is not without recourse to do justice in a proper case and the accepted practice in a situation such as is now present would seem to be to apply to the Appellate Court to have the case remitted if the trial judge felt that substantial justice so required. Baltimore S. S. Co, v. Phillips, 9 F. (2d) 902."

The disclaimer in question was admittedly filed within thirty days after the time to appeal had expired. Note the following statement by the District Court showing that plaintiffs had strictly complied with the law of this Circuit and that the disclaimer was timely filed (R. 309; 25 Fed. Supp. 173, 175):

"The rule in our own Circuit referred to by Judge Coleman in General Chemical Co. v. Standard W. P. & Acid Works, 8 Fed. Supp. 265 (D. C. Md.) as 'the thirty day. rule' or 'the New York rule' is that the filing of a disclaimer within thirty days after the time to appeal has expired, is not unreasonable, and certainly if a party has ninety days within which to appeal it does not seem logical that he should be required to give up this statutory right and file his disclaimer." (Italies by Pistrict Court.)

And see the following which shows that the District Court treated petitioners' motion as a petition to reopen (R. 309, fol. 314; 25 Fed. Supp. 173, 175):

"The Court is disinclined to request the Appellate Court to authorize it to reopen the case and remit the record for that purpose."

This is a far cry from the statement in petitioners' rief, page 10, that defendants' said motion before the district Court was "denied" by the District Court "without passing on the merits". On the contrary, the decision of the District Court clearly shows from the foregoing that irrespective of any showing of special circumstances the plaintiffs may be able to make in opposition thereto, the motion, on the law alone, was actually dismissed as eing without merit.

Moreover, the proper time and place to raise any question as to the disclaimer would be in any subsequent suit, if brought, when evidence could be given to show a misake of the Patent Office in failing to record the dislaimer, when funds for payment were on deposit there, and not in this case wherein the question is quite immaerial because of the suit having been determined wholly an defendants' fayor.

12. When the District Court filed its opinion (23 Fed. happ. 920) finding claim 1 of the patent in suit valid and ot infringed, and claim 2 invalid, respondents were put an election of remedies, namely whether (1) to appeal, (2) to file a disclaimer as to claim 2 and reissue the patent in suit. They elected to do the latter. It is true as stated in respondents' letter of November 25, 1938, appearing on page 6 of petitioners' brief, that the Fullman reissue patent No. 20,873 (granted Oct. 4, 1938) contains two additional claims, both of which are broader than original claim 1. So we have here, in effect, three adjudications of the patentability of claim 1 of the patent

in suit, namely, (1) by the Patent Office when the original patent was ranted; (2) by the District Court (R. 259; 23 Fed. Supp. 920); and (3) by the Patent Office, in the light of the decision of the District Court, upon the application for said reissue. With respect to the latter the Patent Office not only reallowed claim 1 but actually granted to respondents two other claims broader in scope than that held by the District Court to be valid. The statement therefore at page 16 in petitioners' Petition to this Court for a Writ of Certiorari that the patent in suit, is on its face, obviously invalid as being for a mere aggregation of elements and the similar statements made at page 9 and at page 10 of their present brief about the "obviously invalid patent" in suit are without force.

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We shall now consider the single question really presented by petitioners for determination.

Respondents Restate Question Presented by Petitioners

Based upon the record facts of this case, the question presented should be re-stated as follows:

The sole question for decision of this Court is whether or not, in an ordinary patent infringement suit in which the defendants sought no affirmative relief and in which, after a hearing upon the merits, a final decree is entered dismissing plaintiff's bill of complaint (a) as to contributory infringement, (b) for an injunction, and (c) for an accounting, and in which plaintiffs did not appeal from said dismissal on any grounds, the defendants have a right of appeal from a finding of the District Court not necessary to support the decree and wholly

immaterial thereto on an issue specifically raised for determination by defendants' answer to the Bill.

It does not appear in the sole question as presented by titioners that their answer to the bill sought no affirmive relief and that respondents did not appeal on any ound from the final decree dismissing the bill of commint. Nor do petitioners state, as does the Court of opeals in its decision below, R. 313, "that the demandants have already received all the relief they can tain in this action * * "." Accordingly, respondents built that the question presented by petitioners is inmplete.

It may not be amiss to point out that the usual issues a patent infringement suit are validity and infringent and that they are terminated in one of the following sys: (1) claim sued upon held valid and infringed; (2) aim sued upon held valid but not infringed; (3) claim sed upon held not infringed, and (4) claim sued upon led invalid. Where the claim sued upon has been held lid and infringed plaintiff is entitled to an injunction and accounting, and if an accounting is desired an interputory decree is entered. In all other cases a final cree is entered dismissing the bill.

It will be noted from the case of Vultex Corporation v. eveatex Corporation, 100 F. (2d) 838 (C. C. A. 1) the strict Court held certain claims of the first patent in it to be valid but not infringed, and certain claims of e second patent in suit to be both invalid and not integed if valid. On appeal by the plaintiff, the Circuit burt of Appeals affirmed the decree of the District Court th respect to the first patent in suit, but held the second patent in suit valid but not infringed. In many pattreases it is necessary not only to make a finding on the

question of validity but also on the scope of a claim of a patent in order to determine the question of infringement. See Sanitary Refrigerator Co. v. Alexander F. Winters et al., 280 U.S. 30, 74 L. Ed. 147.

Petitioners' Present Position is of Their Own Deliberate Making

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At the bottom of page 8 of their brief, petitioners state they were charged with contributory infringement, and that "their principal defense to the suit was the invalidity of the patent." The decision of the District Court turned partial failure into complete success for the petitioners when it decided (R. 273, fol. 817; 23 Fed. Supp. 926):

"Therefore, in the last analysis, the issue is whether Joselson, or the corporate defendants, purchased connectors from Sterling with reasonable cause to believe that the Sterling license had been cancelled prior thereto." (Emphasis ours.)

The record in this case shows that defendants tried and failed to prove that the sale of devices charged to contribute to the infringement of the patent in suit had other uses than in the combination of elements defined by claim 1 of the patent. The contentiousness of the petitioners is indicated by the fact that they even denied that the sale of an element made in exact accordance with the terms of the patent in suit, by one whom they knew was a former licensee, and having no other use did not amount to contributory infringement. In their answer to the bill of complaint, petitioners state (R. 14, fol. 42):

"that the connectors sold by them, the sale of which is charged to constitute an infringement of said

Fullman patent in suit, were all acquired from licenses of plaintiff, jointly or severally, under the patent in suit, to wit

Appleton Electric Company of Chicago, Ill. Steel City Electric Company, of Pittsburgh, Pa. Conduit Fittings Corporation of Chicago, Ill. Sterling Manufacturing Company of Connecticut." (Emphasis ours.)

espondents' interrogatories and petitioners' answers ereto, Exhibits 3, 4 and 6 (R. 17, fol. 50) were relied on by respondents to show infringement of the patent suit subsequent to the concellation by respondents of license previously granted by them to Sterling Manucturing Company referred to in petitioners' answer.

Since petitioners now state for the first time that their incipal defense was invalidity they have no one but emselves to blame for their present situation, because admission by petitioners of infringement instead of a ecific denial thereof (paragraph 6 of Answer, R. 12), a patent being held valid, would have given them a hal decree in the District Court from which their right appeal would have been unquestioned. Under the cirmstances such an admission would not have been unqual. But they chose to do otherwise, notwithstanding a fact that the device charged to infringe is a Chinese py of the device of the patent in suit. Hence, respondits say the position in which petitioners now find themelves is of their own making.

Jurisdiction

A Circuit Court of Appeals is bound to inquire, first, to its own jurisdiction of a cause brought before it by opeal and, second, as to the jurisdiction of the court from

which the record comes, even though the question is not raised by either of the parties. This question of jurisdiction is so fundamental and so well understood as not to require the citation of any authorities. It is respondents' contention that the question presented by petitioners, that is whether they may appeal from the decree in their favor, not only depends upon but is actually subordinate to the question of jurisdiction, and that the court below did not have jurisdiction to review this case, and that the writ of certiorari should be dismissed.

As the Decree of the District Court Terminated the Case in Petitioners' (Defendants') Favor by Denying Respondents' (Plaintiffs') Prayer for an Injunction and an Accounting, the Court Below Did Not Have Jurisdiction.

The bill of complaint in this case was dismissed by the District Court (R. 276). Respondents (plaintiffs below) did not appeal from the final decree of dismissal. Petitioners (defendants below) admittedly claim no title to the patent in suit and no right to an injunction based thereon. Hence, the lower court was without equitable jurisdiction to hear and determine the question here presented because all equitable jurisdiction had been ousted. Peters Patent Corp. v. Bates & Klinke, Inc., 295 U. S. 392, 394; 79 L. Ed. 1498, 1500.

At the bottom of page 7 of their brief, petitioners quote from the Statute (Title 28 U. S. C. A. 225(a), Judicial Code Sec. 128), stating that nothing therein precludes an appeal to or review by the Circuit Court of Appeals in this case. If that Statute is interpreted to permit petitioners to appeal in this case, then it means that henceforth successful defendants may demand reviews of final deci-

sions of the district courts dismissing a complaint on the merits, merely to enable a defendant to obtain a review of a finding which he does not like. This would also apply to plaintiffs who have obtained complete relief. This is not, and never has been, the law.

Petitioners Are Seeking to Have This Court Consider "a Moot or Academic Question of Law" or to Judicially Determine "a Moot Case"

Respondents respectfully submit that petitioners' question should be answered in the negative, as a matter of law, upon the ground that the bill of complaint having been dismissed by final decree of the District Court, thus denying respondents' prayer for an injunction and an accounting, and from which decree respondents did not appeal, the obvious result is that all equitable jurisdiction of the Court below has been ousted. Petitioners' question, therefore, raises only a moot or academic question of law or a moot case with which this Court and the Circuit Court of Appeals are not concerned, and cannot be required to answer. This Court, in the case of Triplett v. Lowell, 297 U. S. 638, 649, 80 L. Ed. 949, 956, said:

"We are not required to answer academic questions, or questions which may not arise in the pending controversy. See White v. Johnson, supra (282 U. S. 373, 75 L. Ed. 394, 51 S. Ct. 115); United States v. Hall, 131 U. S. 50, 33 L. Ed. 97, 9 S. Ct. 663, supra; Webster v. Cooper, 10 How. 54, 55, 13 L. Ed. 325, 326." (Emphasis ours.)

The judicial power does not extend to the determination of abstract questions; and claims based merely upon "assumed potential invasions" of rights are not enough to warrant judicial intervention. See Ashwander v. Tennessee Valley Authority, 297 U. S. 288, 324, 80 L. Ed. 688, 698-9.

Where, as here, there is no longer an existing cause of action between the parties the appeal should be dismissed. County of San Mateo etc. v. Southern Pacific Railroad Company, 116 U. S. 138, 29 L. Ed. 589. Where, as here, there is no actual controversy involving any real or substantial rights of the parties to the record, or where the controversy between the parties has become extinguished for one reason or another, the appeal will be dismissed; and in the interest of pure administration of justice, the fact that there is no controversy between the parties ought to be allowed to be shown at any time before the decision of the case on appeal. Little v. Bowers, 134 U. S. 547, 33 L Ed. 1016. The Circuit Court of Appeals is not empowered to decide moot questions or abstract propositions, or to declare for the government of future cases, principles or rules of law which cannot effect the result as to the thing at issue in the case before it. People of the State of California v. San Pablo & Tulare Railroad Co., 149 U. S. 308, 314, 37 L. Ed. 747, 749. Questions which can be raised must be real and must present controversies that are substantial, not only from the nature of the principles invoked but from the relation to them of the party by whom they are invoked. City of Lampasas v. Bell, 180 U. S. 276, 284; 45 L. Ed. 527, 531. Where an appeal by a person indicted for a crime from an order of the court releasing and discharging him from further prosecution under the indictment, plaintiff in error could not complain until he was made to suffer; and when discharged from custody he is not legally aggrieved, and therefore cannot appeal. Lewis v. United States, 216 U.S. 611, 612, 54 L. Ed. 637, 638. The province of courts is to decide real controversies, not

o discuss abstract propositions. Stearns v. Wood, 236 J. S. 76, 78, 59 L. Ed. 475, 476.

Petitioners are not under injunction, Cf. Gamewell Fire-Alarm Tel. Co., et al. v. Municipal Signal Co., et al., il Fed. 208 (C. C. A. 1); Lockwood, et al. v. Wickes, et al., is Fed. 118 (C. C. A. 8); and Chapin v. Friedberger-Aaron Manufacturing Co., 158 Fed. 409 (C. C. A. 3).

Petitioners Have Obtained Full Relief and Therefore Not Justified in Urging That the Decree Should Have Been Based Upon Both Grounds

Where, as in re, petitioners sought to dismiss respondnts' bill of complaint on two counts, namely (1) invalidty of the patent in suit, and (2) non-infringement, and ave prevailed, albeit the Court's opinion is based upon mly one of said grounds, namely, non-infringement, petiioners have obtained full relief against the respondents and all they asked for in their answer and are not enitled to urge on an appeal to the Circuit Court f Appeals that the decree in this case ave been based on both grounds, and thus obtain a renew of a finding of validity as to one of the claims of he patent in suit. P. E. Sharpless Co. v. William A. awrence & Son (C. C. A. 3), 208 Fed. 886; New York Telephone Company v. Maltbie, 291 U. S. 645, 78 L. Ed. 041, 54 S. Ct. 448; Lindheimer v. Illinois Bell Telephone Co., 292 U. S. 151, 176, 78 L. Ed. 1182, 1197.

In the paragraph beginning at the bottom of page 15 of their brief petitioners say:

"Thus, petitioners' asserted right of appeal is not predicated upon the 'finding' by the District Court which led to the final decree. To the contrary, it is predicated upon the final decree itself, etc."

In the case of New York Telephone Company v. Malthi, supra, the finding which constituted the basis of the appeal by appellant in that case was also incorporated by the district court in its decree, but notwithstanding that situation that appeal was dismissed by this Court. "But whether the findings of fact are put in the decree or elsewhere is a mere matter of form." Southwestern Bell Telephone Company v. City of San Antonio, Texas, 75 F. (2d) 880, 881 (C. C. A. 5).

Decision of the Court Below States the Law

The Court below, in its opinion (R. 312), at the bottom of page (R. 313) states the law applicable to the question presented here by petitioners, as respondents understand it to be, as follows:

"A party may not appeal from a decree, which terminated in his favor the entire cause of action sued on, merely to obtain a review of findings which he beceves erroneous, but which are unnecessary to support the decree, Lindheimer v. Illinois Bell Telephone Co., 292 U. S. 151, 176; N. Y. Telephone Co. v. Maltbie, 291 U. S. 645." (Emphasis ours.)

The Precise Question Here Involved Was Passed Upon and is Therefore Controlled by the Decision of This Court in the Case of Corning et al. v. The Troy Iron & Nail Factory, 15 Howard 449

The decision of this Court in the case of Corning et al. v. The Troy Iron & Nail Factory, 15 Howard 449, 14 L Ed. 768, is on all fours with the instant case. In that case plaintiff (Troy Iron) brought suit against defendants (Corning, Winslow and Horner) for the infringement of a

patent to one Burden which had been assigned to the plaintiff. The defenses there, as here, were invalidity and non-infringement (license). The Circuit Court held the patent in suit to be valid but that defendants did not infringe (had a license); and therefore dismissed the bill.

Upon appeal by plaintiff this Court reversed the decree of the Circuit Court dismissing the bill by holding the Burden patent in suit to be valid and also to be infringed. For the foregoing facts see the earlier decision of this Court in that litigation, namely, The Troy Iron & Nail Factory v. Erastus Corning et al., 14 Howard 192, 14 L. Ed. 383.

Pursuant to the mandate of this Court in said earlier decision of this Court, the Circuit Court entered the usual decree of validity and infringement, granted a perpetual injunction and referred the case to a Special Master for an accounting. Thereupon defendants appealed to this Court from so much of the original decree as held the patent in suit to be valid. Promptly thereafter plaintiff (respondent) brought a motion to dismiss the appeal upon several distinct grounds, chief of which were (1) that the appeal was taken by defendants from a decree dismissing plaintiff's bill, and (2) the defendants had already been heard in this Court on a former appeal (14 Howard 192; 14 L. Ed. 383). It will be noted that on the second appeal (14 U. S. 451, 465; 14 L. Ed. 768, 774) this Court treated defendant's appeal in one aspect of the same as though it were the first appeal to this Court, and held that where defendants have set up two grounds of defense and the Judge dismissed the appeal upon one of said grounds (non-infringement), and that defendants have not established the other ground (invalidity), defendants cannot appeal from the latter. This Court said:

"Looking at the case as exhibited to us by the record, it appears to be an appeal by respondent (defendant) from a decree dismissing complainant's bill with costs. • • And having such a decree-on the present case, he cannot have a more favorable one." (Parentheses ours.)

Note also the following which occurs on the same page:

"It (the decree) shows only that the judge in reciting the inducement or reasons for entering a decree in favor of the respondents (defendants) below, was of the opinion that they were entitled to such decree, because they had succeeded in establishing one only of the two defenses alleged in their answer. It is the opinion of the Court, on a question of fact involved in the case, but not affecting the decree. If the decree be correct, the party in whose favor it is given has no right to complain; yet his appeal prays that it 'may be reversed, and the appellants (defendants) restored to all things which they have lost by reason thereof;' and the record shows they have lost nothing.

"They (defendants-appellants) have put themselves in the anomalous position either of asking for the affirmance of the decree from which they have appealed, or of requesting this Court to reverse a decree in their favor, and send back the record to the court below, with directions to enter the very same decree, but to assign other reasons for it."

The law gives the party aggrieved an appeal from a final decree of an inferior Court. But it does not give the party who is not aggrieved an appeal from a decree in his favor. "" (Parentheses and emphasis ours.)

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This later case of Corning et al. v. The Troy Iron & Nail Factory, supra, cannot be understandingly read until

the facts in the earlier case of The Troy Iron & Nail actory v. Erastus Corning et al., recited by this Court is 14 How. 192, 14 L. Ed. 383, are first understood. The pinion of this Court in the later Corning et al. case intrectly emphasizes the importance of understanding the acts in the earlier case when, in the later case, at page 35, it said:

"There is a part of the history of this case which does not appear on the record, but being known to the Court, and assumed by counsel on both sides to make part of the case, it will be necessary to notice the case under that aspect."

In the case of City of New Orleans v. Alphonse Emseimer, 181 U. S. 152, 153, 45 L. Ed. 794, this Court subsemently said:

"The decree did not injure defendant but sustained its contention and defendant is in no position to complain that it is aggrieved by its own success. The decree cannot be reversed at its instance because put on one of the grounds it urged rather than another." (Emphasis ours.)

etitioners' Question Is Not Based Upon a Conflict of Decisions

There is no "direct conflict" between the decision of the Court below (R. 312; 100 F. (2d) 4C3) on the one and, and the decision of the Circuit Court of Appeals in the Ninth Circuit and the practice of the Circuit Court of Appeals in the Sixth Circuit on the other, as stated on age 13 of petitioners' brief. The Ninth Circuit case elied upon by petitioners is that of Oliver Sherwood Co. Patterson-Ballagh Corporation, 95 F. (2d) 71, C. C. A. 9. In that case, unlike the case at bar (1) the defendants

counter-claimed, (2) both plaintiffs and defendants appealed from the decree, and (3) no motion was made to dismiss defendants' appeal.

The Patterson-Ballagh Corporation, one of the several defendants in this Ninth Circuit case, obtained a severance, because it was not interested in one of the patents in suit, and thereafter filed a cross-appeal. The Court in that case said, at page 72:

"The Patterson-Ballagh Corporation, no longer interested in the Bettis patent, secured a severance and filed a separate cross-appeal in which it confines its attack upon the decree to that portion of the findings and decree which holds valid the Sherwood patents 1,416,988 and 1,510,804. This it could have done as appellee without a cross-appeal. Herman Body Co. v. St. Louis Body, etc. Co., 8 Circ., 46 F. (2d) 879, Cf. Morley Const. Co. v. Maryland Cas. Co., 300 U. S. 185, 57 S. Ct. 325, 81 L. Ed. 593." (Emphasis ours.)

Following the quotation from the case of Morley Construction Co. v. Maryland Cas. Co., 300 U. S. 185, 191, appearing on page 11 of petitioners' brief, the Court said:

"Findings may be revised at the instance of an appellant, if they are against the weight of evidence, where the case is one in equity. This does not mean that they are subject to like revision in behalf of appellees, at all events in circumstances where a revision of the findings carries with it as an incident a revision of the judgment. There is no need at this, time to fix the limits of the rule more sharply. 'Where each party appeals each may assign error, but where only one party appeals the other is bound by the decree in the court below, and he cannot assign error in the appellate court, nor can he be heard if the proceedings in the appeal are correct, except in support of the decree from

which the appeal of the other party is taken'. The Maria Martin (Martin v. Northern Transp. Co.), 12 Wall. 31, 20 L. Ed. 251, supra.'

We think this expression by the Court should remove from petitioners' mind any question concerning the law enunciated in this case of Morley Construction Co.

Respondents submit that petitioners are clearly in error when they state at page 11 of their brief that

"if respondents had taken an appeal from the dismissal of the complaint in this case, petitioners could not have attacked the validity of the patent in the Court of Appeals without filing a cross-appeal directed thereto." (Emphasis ours.)

We have shown above that the defendant. Patterson-Ballagh Corporation, could, without filing a cross-appeal, have attacked the findings of the lower court holding the two Sherwood patents valid. Petitioners' counsel know this law because they did for the defendants in the case of Claude Neon Lights, Inc. v. E. Machlett & Son (27 F. (2d) 702), just that. In the Claude Neon Lights case the District Court (21 F. (2d) 846) found one of the patents in suit valid and not infringed. Plaintiff appealed and the defendants there, represented by counsel for the petitioners here, attacked in the Circuit Court of Appeals without a cross-appeal the decree of the lower court finding valid claim 2 of the patent in suit. The reason for this is that as a prerequisite to a holding of infringement, the Circuit Court of Appeals must find validity of the patent in suit.

In Corning et al. v. The Troy Iron and Nail Factory, 14 L. Ed. 768, 775, this Court said:

"But, in this case (where patent was held valid but not infringed and bill dismissed) where the decree of the court below dismissed the bill, no appeal by the respondent (defendant) was necessary. He had a full opportunity to urge every defense set up in his answer." (Parentheses ours.)

See also McKinnon Chain Co. v. American Chain Co., 268 F. 353, 354; Ottenheimer Bros. v. Libuwitz, 74 F. (2d) 858, 863 and cases there cited; Commissioner of Internal Revenue v. Kelly's Estate, 84 F. (2d) 958, 963; and Harding v. Federal National Bank, 31 F. (2d) 914, 917, all of which are to the same effect.

In Monarch Marking System Co. v. Dennison, 92 F. (2d) 90, C. C. A. 6, covering what the petitioners describe as "the practice" in the Sixth Circuit, we need not say more than that both plaintiff and defendant appealed from the decree in that case, and no question was raised as to the right of defendant to appeal and so the point was not passed upon.

Barber Asphalt case, 302 U. S. 458, 82 L. Ed. 371.

Petitioners intimate at page 9 of their brief that respondents are utilizing the Fullman patent in a manner and for a purpose which this Court condemned in the Barber Asphalt case, 302 U.S. 458, 460, 82 L. Ed. 371. Petitioners are clearly mistaken because the District Court in this case found (R. 268, fol. 802) that "the plaintiffs' (respondents) connectors are not * * standard articles of commerce". The decision of this Court in the Barber Asphalt case, supra, reads in part as follows:

"The following facts were proved or admitted.
"The Barber Company and Leitch Manufacturing Company are competing manufacturers of billy

minous emulsion—an unpatented staple article of commerce produced in the United States by many concerns and in common use by their customers for many purposes." (Emphasis ours.)

ne foregoing shows that the controlling facts before the part in the Barber case are not presented in the case at r.

rbice Corporation v. American Patent Development Corporation, 283 U. S. 27, 75 L. Ed. 819

The opinion of this Court in the case of Carbice v. merican Patents Development Corporation cited at page of petitioners' brief is no more helpful in determining a question here presented than is the Barber Asphalt se, supra, and for the same reason. In the Carbice case a unpatented article was carbon dioxide, and therefore, like respondents' connectors, a standard article of comperce. In the Carbice case, this Court said, referring to lid carbon dioxide.

"That article and its properties as a refrigerant have been long known to the public. The patent is not for a machine for making solid carbon dioxid nor is it for a process for making or using that substance. The Patent Office rejected an application for a process patent." (Emphasis ours.)

If as petitioners intimate the Barber Asphalt and arbice cases, supra, in which the article complained of one case was a staple article of commerce and in the her articles long known to the public, preclude respondts from enjoining the manufacture and sale of a concernitive that defined in claim 1 of the Fullman patent,

which is not a standard article of commerce, then there is no such thing as contributory infringement referred to by this Court in each of these cases.

Respondents Have Not Created an Unlawful-Monopoly Nor Did Petitioners Plead Monopoly or Price Control

Respondents submit that a reading of petitioners' brief, in view of the record in this case, indicates an effort on the part of petitioners to cloak the question presented with some of the superficial anti-monopoly philosophy that is being so widely talked and loosely urged by persons apparently not aware that the word "monopoly" when used in connection with patents means something entirely different from the word "monopoly" as known and used many years ago by British sovereigns.

At page 8 of their brief, petitioners state that

of a patent grant, thereby establishing a monopoly for the period of its grant to the detriment of the public interest, that public interest necessitates, when called upon to give it, appellate scrutiny of the basis for or the legality of such a monopoly." (Emphasis ours.)

Establishing a patent monopoly is not a "detriment to the public interest." The patent grant is rather a withholding from the public of something which prior to the grant of the patent was not in the public domain. It is a reward for the discovery of something new and useful.

The validity of the patent in suit is not presented to this Court for determination by the single question appearing at page 7 of petitioners' brief. Why this "monopoly"

statement should appear in petitioners' brief we do not know. Since, however, it does appear, we think it may be helpful to the Court to have respondents' answer thereto, in the recent words of the Honorable Commissioner of Patents, Conway P. Coe, as published in the Journal of the Patent Office Society, February, 1939, pages 87 and 130. At pages 90 and 91 of this publication it appears that on January 16, 1939 Mr. Coe testified before the Temporary National Economic Committee of Congress, as follows:

"It occurs to me that a great deal of misapprehension results from the failure to distinguish between the monopoly or privilege vested in a patentee and the sort of monopoly that British sovereigns once conferred. It is only when we appreciate this distinction that we can understand how Jefferson could consistently advocate the monopoly of patents for inventions while condemning the traditional form of monopoly. Americans generally detest monopoly in the true sense of the term because it makes possible the ruthless exercise of power. Indeed, the American Revolution was precipitated by popular resentment of the monopoly on tea held by the East India Company. It would therefore have been exceedingly strange if, only a few years later, the delegates sent to the Constitutional Convention by Massachusetts and the other Colonies had been willing to sanction an equivalent form of monopoly under the new government they were creating. In the sixteenth and seventeenth centuries a king or queen of England could reward a favorite by granting him a monopoly on salt or some other necessary of life. This beneficiary of royal favor was not, of course, the discoverer of salt. That came readymade from the hands of the Creator eons before the advent of man. What the darling of His or Her majesty received was the power to compel others to use salt solely of his supplying and only on terms of his dictation.

"But a patent is no such monopoly. It is a reward for the invention or discovery of something new, something before unknown, something added to the sum total of human knowledge, utility, wellbeing; something which the inventor or discoverer. despising the lure of money or fame, might have withheld from his fellow men. By the monopoly that goes with a patent, then, the government recompenses and, for a limited time, protects the inventor or discoverer who gives to the world the use and benefit of his invention or discovery. This is a kind, and a degree of mutuality that negatives monopoly in the old or the current concept. Monopoly in the latter sense of the term gave to an individual or a group complete dominion of some thing already existent. A patent awards monopoly to the producer of something original, something super-added to the common store. So it is that two things bearing the same name need not be of the same nature." (Emphasis ours.)

Finally, respondents' position is that if petitioners honestly believe (1) that the patent on its face is invalid and (2) that the patent in its entirety is invalid because of respondents' unreasonable delay in filing a disclaimer of claim 2 which was held to be invalid by the District Court, it would seem that petitioners should have no hesitancy in conducting themselves accordingly. Petitioners certainly know that under the law of laches respondents are under the duty to protect their patent rights and that necessarily in the natural course of things petitioners will have an opportunity to raise, at the proper time and place, any matter of a justiciable character. As said by the District Court (R. 309, fol. 314; 25 Fed. Supp. 173, 175) on petitioners' motion to vacate the decree in this

ase on the alleged failure by plaintiffs to seasonably file a isclaimer of invalidated claim 2:

"The Court is disinclined to request the Appellate Court to authorize it to reopen the case and remit the record for that purpose. If the defendants succeed in their appeal the hearing now sought will become moot. If they fail, they may still raise the issue if and when suit is brought against them for infringement or against any customer whom they may feel obligated to defend." (Emphasis ours.)

In Conclusion

In view of all of the foregoing, respondents submit hat as a matter of law based upon the record facts, the circuit Court of Appeals of the Second Circuit is without urisdiction to hear and determine the question presented here by the petitioners and the writ of certiorari should be dismissed or its order dismissing the appeal affirmed.

Respectfully submitted,

GEO. WHITEFIELD BETTS, JR.,
WILLIAM BOHLEBER,
FRANCIS H. FASSETT,
Counsel for Respondents.

New York, N. Y., April 3, 1939.

BAR PRESS, INC., 47 WEST ST., NEW YORK.
[1923]

FILED

JUN 1 1939

DHARLES ELMONE CROPLEY

IN THE

Supreme Court of the United States

October Term, 1938

No. 582

ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORATION, SAMUEL JOSELSON AND BELLE JOSELSON

Petitioners

v.

THE THOMAS & BETTS CO. AND NATIONAL ELECTRIC PRODUCTS CORPORATION

Respondents

MOTION BY RESPONDENTS TO TAX COSTS AGAINST PETITIONERS, AFFIDAVIT AND NOTICE OF SUBMISSION

GEO. WHITEFIELD BETTS, JR.
WILLIAM BOHLEBER
FRANCIS H. FASSETT

Counsel for Respondents



Supreme Court of the United States

ELECTRICAL FITTINGS CORPORATION, JOSEL-SON SALES CORPORATION, SAMUEL JOSELson and Belle Joselson.

Petitioners.

THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION,

Respondents.

Motion by Respondents to Tax Costs Against Petitioners

Now come respondents, pursuant to leave granted in open Court on May 29, 1939, and move to tax the costs of the above entitled case in this Court as well as in the Court below against petitioners upon the grounds

- (1) that while the case was pending in the District Court petitioners approved as to form the decree (R. 276) which, on May 22, 1939, was reversed by this Court. (See affidavit of Francis H. Fassett, Esq. attached hereto, and the endorsement on the decree itself, R. 277.)
- (2) that the first intimation respondents had that petitioners objected to the mere form of the decree was at the argument before this Court on April 19, 1939,
- (3) that in their assignment of errors in the Circuit Court of Appeals (R. 292-4) upon which petitioners relied for their prosecution of the appeal in the above entitled cause, petitioners did not

assign any error as to the form of the decre entered by the District Court although there are 14 other errors assigned all of which go to the merits of the case, and

(4) that at the argument before this Court on April 19, 1939 petitioners, in response to a question by one of the Justices of this Court, admitted that no application had been made either to the Court below or to the District Court to correct the form of the decree entered by the latter.

That the petitioners were not concerned with the ment form of the decree will be readily apparent from the conclusion at page 16 of "Brief for Petitioners" in this Court, as follows:

""It is submitted, therefore, that the question presented should be answered in the affirmative, the judgment of the Second Circuit Court of Appeals reversed, and the case remanded to that Court with instructions to reinstate petitioners' appeal and pass on the merits thereof." (Emphasis ours.)

and from the conclusion at page 5 of the "Reply Brief for Petitioners" in this Court, as follows:

"The question presented should be answered in the affirmative and the judgment of the Second Circuit Court of Appeals reversed, and the cause remanded to that Court with instructions to reinstate petitioners' appeal and to pass on the merits thereof." (Emphasis ours.)

In support of this motion respondents submit here with an affidavit of Francis H. Fassett, Esq., one of the attorneys for respondents throughout this litigation.

This motion is brought by respondents because Rule 32 of this Court does not specifically cover the question of costs in a case like this where the judgment of the lower Court (R. 276) is reversed by this Court not as to the

merits but as to the mere form of the decree, and the cause remanded to that Court with instructions to entertain the appeal to the extent only that it direct the District Court to reform its decree in accordance with the views expressed by this Court in its decision of May 22, 1939.

As petitioners have failed upon the merits of their appeal it is submitted that all costs in this Court and the Court below should be awarded against them. C. & L. M. R. Co. v. Swan, 111 U. S. 379, 387, and Oklahoma Gas & Electric Co. v. Oklahoma Packing Co., 292 U. S. 386, 392.

Respectfully submitted,

GEO. WHITEFIELD BETTS, JR.,
WILLIAM BOHLEBER,
FRANCIS H. FASSETT,
Counsel for Respondents.

Dated May 31, 1939.

Affidavit of Francis H. Fassett

IN THE

SUPREME COURT OF THE UNITED STATES

Остовев Тевм, 1938

No. 582

ELECTRICAL FITTINGS CORPORATION, JOSEL-SON SALES CORPORATION, SAMUEL JOSEL-SON and BELLE JOSELSON,

Petitioners.

v.

THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION,

Respondents.

State of New York, County of New York, 88.:

Francis H. Fasserr, being first duly cautioned and sworn, deceses and says:

That he is an attorney at law, duly admitted and qualified as an attorney and counsellor of the Supreme Court of the United States and of counsel for the respondents in the above entitled matter.

That prior to the hearing before the District Court on April 23, 1938 on defendants' Petition for Rehearing deponent filed with the Court on behalf of the plaintiffs, respondents here, a proposed draft of final decree. That the extracts from the minutes of the oral proceedings had on April 23, 1938 before the District Court on defendants' Petition for Rehearing, as shown in the Record (R. 289) close with the following statement by the Court

"The Court: Of course, • • But I feel that this application must result in the denial of the petition and the approval of the decree which has been presented unless it is desired to have the Court consider the counter decree." (Emphasis by deponent,)

That at the hearing on April 23, 1938 upon defendants' Petition for Rehearing, the following colloquy between the Court and counsel for the defendants occurred, immediately following the foregoing statement (R. 289) by the Court:

"Mr. Crews: Your Honor, I should like to

submit a counter decree.

"The Court: I will be very glad to entertain any suggestions that you may have to offer if you feel that the decree that has been presented is not in accordance with the decision. When will you present that?

"Mr. Crews: I can do that Monday.

"The Court: I am not particularly urging that it be done on Monday. Within the next few days would be all right." (Emphasis by deponent.)

That on Monday, April 25, 1938, and Tuesday, April 26, 1938, deponent conferred on the telephone with Floyd H. Crews, Esq., counsel for defendants, concerning the form of the decree to be entered in view of his statement to the Court at the hearing on Saturday, April 23, 1938, with the result that the words "claim 1 of" appearing in the paragraph numbered 1, R. 276, folio 828, in the body of the decree were inserted at the suggestion of deponent.

That the only other changes made in the form of decree originally filed by deponent and referred to by the Court at the close of the hearing on defendants' Petition for Rehearing, were made in the preamble thereof; and that said changes so made were such as to better reflect the filing, argument and denial of defendants' Petition for Rehearing. That as a result of deponent's telephone conferences aforesaid, with Floyd H. Crews, Esq., the final decree (R. 276) was served upon counsel for defendants, petitioners here, on which they acknowledged receipt thereof and "approved" the same "as to form" as of April 26, 1938.

Further affiant sayeth not.

FRANCIS H. FASSETT.

Subscribed and sworn to before me) this 31st day of May, 1939.

Marie J. Hussey
Notary Public, Kings County
Kings County No. 52
New York County Clerk's No. 518
Commission expires March 30, 1940
(Seal)

Notice

IN THE

SUPREME COURT OF THE UNITED STATES

ELECTRICAL FITTINGS CORPORATION, JOSEL-SON SALES CORPORATION, SAMUEL JOSEL-SON and BELLE JOSELSON, Petitioners.

. .,2 00000

No. 582

THE THOMAS & BETTS Co. and NATIONAL ELECTRIC PRODUCTS CORPORATION,

Respondents.

PLEASE TAKE Notice that on Thursday, June 1, 1939 respondents will submit to the Supreme Court of the United States the attached motion to tax the costs of the above case in said Court as well as in the Court below against petitioners upon the grounds set forth in said motion.

Yours, etc.,

WILLIAM BOHLEBER, Counsel for Respondents.

Dated May 31, 1939.

GEO. WHITEFIELD BETTS, JR., FRANCIS H. FASSETT,

Of Counsel.

To:

MESSES. DARBY & DARBY, 405 Lexington Avenue, New York City.

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Service of the within and the receipt of three copies thereof is hereby acknowledged this 31st day of May, 1939.

SAMUEL E. DARBY, JR, FLOYD H. CREWS, Counsel for Petitioners.



SUPREME COURT OF THE UNITED STATES.

No. 582.—Остовек Таки, 1938.

Electrical Fittings Corporation, Joselson Sales Corporation, Samuel Joselson and Belle Joselson, Petitioners,

The Thomas & Betts Co. and National Electrical Products Corporation.

On Writ of Certiorari to the United States Circuit Court of Appeals for the Second Circuit.

[May 22, 1939.]

Mr. Justice ROBERTS delivered the opinion of the Court.

This was a suit in equity by the respondents for alleged infringement of a patent. The District Court held claim 1 valid but not infringed and claim 2 invalid. Instead of dismissing the bill without more, it entered a decree adjudging claim 1 valid but dismissing the bill for failure to prove infringement.

The respondents did not appeal, but filed in the Patent Office a disclaimer of claim 2. The petitioners appealed to the Circuit Court of Appeals from so much of the decree as adjudicated claim 1 valid. The appeal was dismissed on the ground that the petitioners had been awarded all the relief to which they were entitled, the litigation having finally terminated in their favor.² The court was of opinion that the decree would not bind the petitioners in subsequent suits on the issue of the validity of claim 1.

We granted certiorari because of an alleged conflict of decision.³ A party may not appeal from a judgment or decree in his favor, for the purpose of obtaining a review of findings he deems erroneous which are not necessary to support the decree.⁴ But here the decree itself purports to adjudge the validity of claim 1, and though the adjudication was immaterial to the disposition of the cause, it stands as an adjudication of one of the issues litigated. We think

^{1 23} F. Supp. 920.

^{2 100} F. (2d) 403.

³ See Oliver-Sherwood Co. v. Patterson-Ballagh Corp., 95 F. (2d) 71.

⁴Lindheimer v. Illinois Bell Tel. Co., 292 U. S. 151, 176.

2 Electrical Fittings Corp. et al. vs. Thomas & Betts Co. et al.

the petitioners were entitled to have this portion of the decree eliminated, and that the Circuit Court of Appeals had jurisdiction, as we have held this court has, to entertain the appeal, not for the purpose of passing on the merits, but to direct the reformation of the decree.

The judgment is reversed, and the cause is remanded to the Circuit Court of Appeals with instructions to entertain the appeal and direct the District Court to reform its decree in accordance with the views herein expressed.

A true copy.

Test:

Clerk, Supreme Court, U.S.

⁵ See 28 U. S. C. § 225.

^{.6} Gully v. Interstate Nat. Gas Co., 292 U. S. 16; Oklahoma Gas & Elec. O. v. Oklahoma Packing Co., 292 U. S. 386; William Jameson & Co. v. Morger thau, decided May 15, 1939.

